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# The CHEMIST AND DRUGGIST

or RETAILER — WHOLESALER — MANUFACTURER  
DECEMBER 2, 1950

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*The*

# CHEMIST AND DRUGGIST

for RETAILER—WHOLESALE—MANUFACTURER

DECEMBER 2, 1950

Published weekly at 28 Essex Street, Strand, London, W.C.2

Telephone: Central 6565 (10 lines). Telegrams: "Chemicus, Strand, London."

One copy 1/- each. Annual subscription, which includes *The Chemist and Druggist Diary and Year Book, 30/-*

Volume CLIV

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## NEWS OF THE WEEK

**Christmas Postal Arrangements.**—The Post Office announce that parcels and packets intended for inland delivery by Christmas Day must be posted not later than December 19.

**U.S. Export Controls.**—The U.S. Commerce Department has announced licensing controls on exports of sulphonamides and antibiotics to all countries except Canada. The controls, effective from November 19, are described as necessary for the national security."

**Statutory Committee.**—The Statutory Committee of the Pharmaceutical Society meeting at 17 Bloomsbury Square, London, W.C.1, at 2.30 p.m., on December 10 to consider a complaint against a member of the Society which alleges that he is under the influence of drink or drugs whilst employed as locum tenens in charge of a pharmacy.

**Imports of Agar from Japan.**—The Ministry of Food, in agreement with the Board of Trade, announces that arrangements have been made for a limited quantity of agar to be imported from Japan

under individual licence up to June 1951. Applications for import licences, which should be accompanied by evidence of firm offers, should be made in duplicate on the usual form ILD/A obtainable from the Board of Trade, Import Licensing Branch, Romney House, Tufton Street, S.W.1, or the usual Customs Offices. For administrative convenience, completed application forms should be submitted in the first instance to the Ministry of Food, Bakery and Confectionery Division, London Road, Stanmore, Middlesex, and should arrive there not later than December 16.

**Exemption from Key Industry Duty.**—The Treasury has made an Order (S.I. 1950, No. 1848) exempting the following articles from Key Industry Duty for the period November 22 to December 31: Carbon tetrachloride; *p*-chloromononitrobenzene; *p*-dichlorobenzene (a chlorobenzene); 3:4-dimethyl-5-sulphanilamido-isoxazole (a substituted sulphonamide); sodium trichlorophenoxyde; *m*-5-xylolene; and zinc ethylenebisdithiocarbamate (a salt of a substituted dithiocarbamic acid). A

further Order (S.I., 1950, No. 1876) exempts the following from K.I.D. for the period December 1 to December 31: 2-(*p*-acetamidobenzenesulphonamido)-pyrimidine (a substituted arylsulphonamide); benzene hexachloride; phenylmercuric acetate (a mercury compound).

**Shortage of Packaging Materials.**—An open meeting of the Institute of Packaging in London recently discussed the Anglo-American specialist productivity team on packaging (see p. 627) and resolved to send telegrams to the Prime Minister and the President of the Board of Trade deplored the shortage of raw materials for packaging. They requested that immediate attention be given to the matter otherwise the industry would soon be back at the lowest levels touched during the war.

**Exportable Surpluses of Chemicals.**—A second revised booklet "Chemical Products Exportable Surpluses" has been published by the Organisation for European Economic Co-operation (O.E.E.C.). The booklet contains details about chemical products which countries including the United Kingdom have available for export. Owing to a limited issue, copies have been sent only to trade associations directly concerned, including the Association of British Chemical Manufacturers, 166 Piccadilly, London, W.1, and the Association of British Pharmaceutical Industry, Tavistock House North, Tavistock Square, London, W.C.1.

**New Streptomycin Regulations.**—In view of the higher potency of streptomycin now being produced in Britain, the Minister of Health, Secretary of State for Scotland, and Minister of Health and Local Government for Northern Ireland have amended the Tenth Schedule to the Therapeutic Substances Regulations, 1931, to require that streptomycin with a potency of less than 600 units per mgm. shall not be issued (the present minimum potency is 300 units per mgm.). The requirement in paragraph 6 (2) of the Tenth Schedule that a solution of streptomycin with a potency of less than 2,000 units per c.c. shall not be issued has been deleted. The regulations, entitled the "Therapeutic Substances Amendment Regulations, 1950" (S.I. 1950, No. 1865), came into operation on December 1. Copies may be obtained from H.M. Stationery Office, York House, Kingsway, London, W.C.2, price one penny each.

## LOCAL NEWS

**Reading Branch Dance.**—About 3 members and guests attended a dance organised by the Reading Branch of the Pharmaceutical Society recently. More than thirty prizes were presented during the evening.

**Ramsgate N.H.S. Lecture.**—An address was given by Mr. J. Wright (assistant secretary, National Pharmaceutical Union) entitled "Current National Health Service Problems" to the Isle of Thanet Branch of the N.P.U. at Ramsgate on November 1.

**Brighton Branch Officers.**—The following have been elected the officers of Brighton and Hove Association of Pharmacy for the 1950-51 session: *President*, Mr. S. F. George, Portslade; *Joint Secretaries*, Miss M. Burkitt, Brighton, and M. L. L. Peck, Hove.

**Eastbourne Branch Officers.**—At an annual meeting of the Eastbourne Branch of the Pharmaceutical Society on October 24, the following officers were elected: *Chairman*, Mr. George Checkley; *Vice-chairman*, Mr. R. Gordon; *Secretary*, Mr. K. W. Hewish, 48 Copper Avenue, Lower Willingdon, Eastbourne.

**Pharmacy Fire.**—A fire broke out in the stock-room of W. E. Clarke & Sons (Chemists), 253 Ewell Road, Surbiton, on November 21, while the shop was closed for lunch. The contents, including Christmas stock, were rendered unsaleable and some damage was done to the structure.

**Plymouth N.P.U. Officers.**—The officers elected at the annual meeting of Plymouth Branch of the National Pharmaceutical Union for the ensuing year were as follows: *Chairman*, Mr. C. Co U'Ren; *Vice-chairman*, Mr. Fern Wallis; *Treasurer*, Mr. P. Cohen; *Secretary*, Mr. W. F. E. Eustace, 8 Falmouth Street, Stonehouse, Plymouth.

**Long Service Rewarded.**—Some employees of The British Drug Houses Ltd., in London, who had completed twenty-five years and more in the company's employ, were presented with long service awards by Mr. G. F. Williams (managing director), supported by other members of the board, at a ceremony in the works on November 10.

**Manchester Pertussis Campaign.**—The Manchester Health Committee recommended that a scheme involving

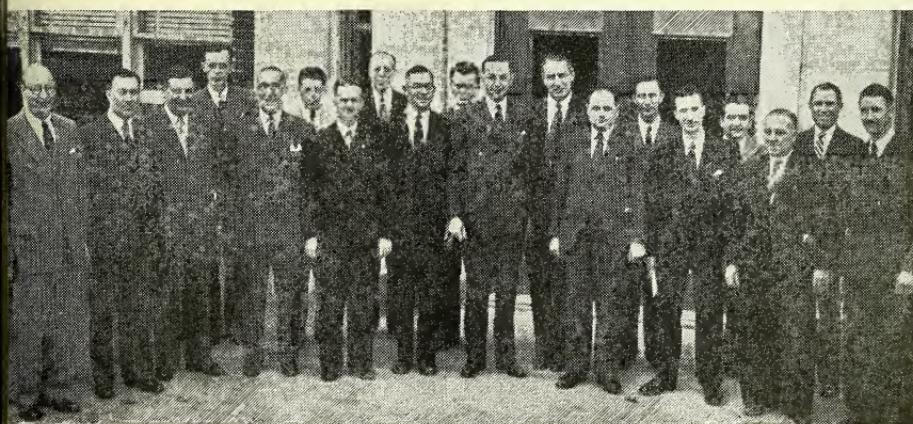
culation of 20,000 local children against whooping cough should be undertaken. The Medical Research Council offered to supply £5,000 worth of vaccines and, in return, asks for information on reaction and subsequent whooping cough infection among the children tested.

**Chesterfield Branch Annual Meeting.** At the annual meeting of the Chesterfield Branch of the Pharmaceutical Society on November 14 the following officials were elected:—*Chairman*, Mr. F. C. Goffs; *Vice-chairman*, Mr. L. Hitchcock; *Treasurer*, Mr. H. E. Keetley; *Secretary*, Mr. A. Livesley, c/o 35 Market Place, Chesterfield. Mr. D. W. Hudson (a member of the Society's Council) gave a sound pharmacist's outlook on current pharmaceutical problems. A collection for Benevolent Fund realised £3 10s. The membership of the branch is now seventy-four and is increasing yearly.

**Portsmouth Dinner and Dance.**—About 200 pharmacists and friends attended the annual dinner and dance of the Portsmouth Branch of the Pharmaceutical Society on November 15. Mr. C. W. Applethorpe (a member of the Society's Council) replied to the toast of the Society. Mr. E. Thorpe (head of the pharmacy department, Portsmouth Municipal College) proposed "The Guests and Ladies," and Mr. L. B. Benny (head of the College) replied. Mr. A. W. Dempsey (social

secretary of the branch) presented an inscribed table-lighter and cheque to Mr. N. Francis (branch chairman and senior lecturer in pharmacy at the Municipal College) in appreciation of his services to students at the College since 1920. Mr. R. G. Tremlett was toastmaster.

**President in Sunderland.**—The principal guest at the dinner held by the Sunderland Branch of the Pharmaceutical Society, held on November 8, was the president (Mr. A. A. Meldrum). The principal, Sunderland Technical College (Mr. D. A. Wrangham) and members from the Newcastle and Durham Branches were also present. Mr. Meldrum made a plea for greater co-operation between members of adjacent branches. He deprecated any suggestion that the conditions of registration should be relaxed to meet the increased pharmaceutical work in the National Health Service.—On the following day Mr. Meldrum gave the inaugural address at a newly-formed Sunderland Branch of the British Pharmaceutical Students' Association. He outlined the main stages in the evolution of pharmacy in England, described developments in pharmaceutical education, and explained the new examination regulations. Mr. Meldrum urged new students to consider the advantages of the University Intermediate examination. He praised the work done by the B.P.S.A. and welcomed the formation of the Sunderland Branch.



**PHARMACEUTICAL PRODUCTIVITY TEAM AT TUCKAHOE.**—Members of the Pharmaceutical Productivity Team now studying American manufacturing processes (see *C. & D.*, November 18, p. 555) were the guests of the Burroughs Wellcome & Co. New York associated house on November 8-9. The photograph shows the team outside the firm's works at Tuckahoe. At the left of Mr. H. G. Rolfe (team leader) is Mr. W. Creasy (president and general manager of Burroughs Wellcome & Co. (U.S.A.) Inc.).

## IRISH NEWS

### Ulster Chemists Withdraw Their Notice.

—Chemist contractors in Northern Ireland have agreed to withdraw their resignations from the National Health Service contract on the strength of an offer by the Minister of Health and Local Government to apply in Northern Ireland the terms of the Scottish settlement (see *C. & D.*, November 25, p. 574). Adjustments in the award will be granted where dispensing costs are higher in Northern Ireland than in Scotland.

**Irish Drug Association.**—At a meeting of the Irish Drug Association recently it was decided to leave the question of a special I.D.A. label for packed lines in abeyance because of unforeseen difficulties. Under the title "Self Help Is The Best Help," the Association has issued a circular to all its members. Mr. H. W. Salisbury, M.P.S.I., 73 North Strand Road, Dublin, has been elected a member.



**CONGRATULATIONS FROM PHARMACIST FATHER**  
—Mr. Richard F. Timoney, M.P.S.I., receives the congratulations of his father (Mr. Frank Timoney, M.P.S.I.), after the conferring of his degree of B.Sc. (Hons.) at University College, Dublin, recently. Mr. Richard Timoney, who is Professor of Pharmacy at the College of the Pharmaceutical Society of Ireland, took first place in the examination.

**Chemists and Health Service.**—Members of the Pharmaceutical Negotiating Committee met officials of the Ministry of Health and Local Government in Belfast on November 20 to consider the situation arising from the notices of resignation from the Health Service (due to take effect on November 30) given by 540 chemists. The conference was followed by a special

meeting of the Pharmaceutical Negotiating Committee. It is understood that no fresh proposals were put forward by the Ministry which again indicated that, under the Social Services Agreement, it was not in position to vary the 8 per cent. deduction without reference to the position in Great Britain. A general meeting of the chemist was convened by the Local Pharmaceutical Committee in Belfast on November 28 to consider the notices of resignation.

**Pharmacist Honoured.**—Mr. Robert Gibson, O.B.E., M.P.S.N.I., was the guest of honour at a dinner given by his colleagues on the Local Pharmaceutical Committee, Northern Ireland, in Belfast on November 9 to mark his three year tenure of the chair of the Committee, an of the Pharmaceutical Negotiating Committee, and in recognition of the honour recently conferred upon him by the King. Mr. H. W. Gamble (president of the Pharmaceutical Society of Northern Ireland and chairman of the Local Pharmaceutical Committee) was in the chair. The guests included Mr. and Mrs. J. N. Patterson, Mr. and Mrs. A. N. Lovesay, Mr. Caldwell (president, Ulster Chemists Association), Mrs. Caldwell, Mr. and Mrs. C. A. Quinn and Mr. and Mrs. W. Gorman.

## AUREOMYCIN IN BRITAIN

SUPPLIES of aureomycin are expected to be available soon from a plant that is being erected by Cyanamid Products, Ltd., Hirwaun Industrial Estate, near Merthyr Tydfil, Glam. The plant will satisfy the expected domestic demands of Britain and will also provide supplies for export. At the request of the Ministry of Health, the plant (which is nearing completion) will be confined to purifying crude aureomycin and encapsulating and packaging the refined product. Whilst most of the plant has been obtained in Britain permission has been granted to import certain equipment not obtainable in this country, equipment specially designed by the Lederle Laboratories division of the American Cyanamid Co. Cyanamid Products, Ltd., are studying plans concerning the possibility of erecting a further plant in Britain to undertake the complete manufacture of aureomycin. They expect that the new source will facilitate the use of aureomycin in countries where previously it has been restricted because of the shortage of dollars required to buy the drug.

## TOPICAL REFLECTIONS

### Official Nomenclature

The editorial article on the nomenclature of new drugs (p. 587) calls timely attention to variation in names for identical substances. As you indicate, this matter should be dealt with internationally. We have no desire for further incidents like that in 1936 regarding names for ergometrine. *THE CHEMIST AND DRUGGIST* has often given prominence to the question of multiplicity of official names for drugs, chemicals and preparations, and has published tabulated comparisons. This conflict of names of long standing. It may be remembered that it was discussed at a meeting of the International Pharmaceutical Federation held in London twenty-seven years ago (*J. & D.*, 1923, II, 115). The discussion was based on an excellent report by a commission appointed a year earlier. Numerous examples of differences of nomenclature in the sixteen pharmacopoeias studied were given, and it was agreed that copies of the report should be sent to "all the national pharmacopoeia commissions." A simple example of these differences is the saponin of the British Pharmacopoeia of that period, which was variously known in other pharmacopoeias as *sapo*, *sapo mediterraneus*, *sapo medicinalis*, *sapo officinalis*, *sapo amygdalinus*, and *sapo oleaceus*. Two other discrepancies were mentioned: (1) differences in strength (e.g., in the case of citric acid); (2) differences in formula (e.g., in *tinctura amara*). I trust that the international use of Latin for the name of each drug, chemical or preparation will be continued. Differences in terminations could be easily ironed out. There seems to be no logical reason, for instance, why alkaloids should in Latin be of feminine gender and end in "a." To say "norphinium" instead of "morphina" would hurt nobody, and a majority decision on this point should be final.

### Safety in Manufacturing

On pp. 596-97 an article on devices for safe handling of chemicals is appropriately followed by one headed "Safety in the Drug Industry." This important question of industrial hazards in large-scale manufacture still needs to be kept well in mind. On a previous occasion I noted a few of Dr. Donald Hunter's observations on liquids and gases likely to cause severe illness or even death if used without adequate precaution. Your con-

tributors wisely call attention to other features, and your illustrations are helpful. We may assume that all owners of factories and works are up to date in their knowledge of the Factories Acts. At any rate it is to be hoped that they are. An inspector under these Acts told me, many years ago, that he found some unpaid magistrates lacking in judicial impartiality when it became his duty to take cases into court. That state of affairs has probably ended, or nearly so, on account of the publicity now given to appeals. Obviously no board of directors is likely to expose workers to unnecessary risks; all the same, it is best to know what is regarded by authorities as sufficient in fencing machinery, removing dangerous gases and so forth. The prominence given locally, if not on a wider scale, to any serious industrial accident may harm a company's reputation.

### Microscopes

Dr. R. Barer's article entitled "Recent Advances in Microscopy" (pp. 589-91) is so valuable an account of modern developments in that indispensable study that one looks forward to a continuation from his pen. The fact that the Burch microscope has given rise to new variants is an indication of the pace of research undertaken with the aid of microscopical techniques. Science has moved far since Robert Hooke's "Micrographia" appeared in 1664. Hooke, who held the post of curator to the Royal Society, may be claimed as the earliest of the pioneers in microscopy; but Marcello Malpighi and Antony van Leeuwenhoek should be remembered as his distinguished contemporaries. I have been refreshing my memory on the sale in London, in 1925, of microscopes collected by Sir Frank Crisp. That sale was one of those occasions when a collector can legitimately wish himself possessed of unlimited cash. The veteran auctioneer, Mr. J. C. Stevens, said that though he had been selling microscopes for sixty-two years, he had never conducted such a sale, and there could never be another such. In its entirety the collection comprised nearly 3,000 microscopes and over 1,000 pieces of apparatus. One of the instruments sold was described as the oldest known. It is satisfactory to recall that some of the most famous items went to either the Science Museum in South Kensington or to the Wellcome Historical Medical Museum. **Xrayser**

## NEW COMPANIES

**DABITOFF Co. (LONDON), LTD. (P.C.).**—Capital £1,000. To carry on the business of chemical manufacturers, druggists, etc. First directors are to be appointed. R.O.: 12 Devonshire Row, E.C.2.

**LANTIGEN (EXPORT), LTD. (P.C.).**—Capital £1,000. To carry on the business of exporters of vaccines, sera, pharmaceutical preparations, etc. First directors are to be appointed. R.O.: Pinewood, College Road, Bagshot, Surrey.

**CENTRAL PHARMACY (N.I.), LTD. (P.C.).** Registered in Belfast—Capital £1,000. To carry on the business of wholesale or retail chemists and druggists, etc. Bernard A. Mullen, subscriber, Commercial Hotel, Dungiven, co. Londonderry. First directors are not named.

**ROBERT SMITH & CO. (DERBY), LTD. (P.C.).**—Registered in Belfast. Capital £20,000. To acquire the business of Robert Smith & Co., 44 Foyle St., Londonderry, wholesale and retail chemists and druggists, etc. Martha Smith and Henry A. Smith, directors.

## Company News

**F. E. HOOKWAY & CO., LTD.**—The company has been reconstituted, and the capital increased to £50,000, fully paid up. Mr. H. C. Buckey has been appointed a director.

**LONDON RUBBER CO., LTD.**—Permission has been granted by the Council of the Stock Exchange to deal in the issued preference and ordinary shares of the company. An announcement appears elsewhere.

**SAVORY & MOORE, LTD.**—Group trading profit before taxation, for the year to March 31 amounted to £65,543 (against £175,090 in the previous year) and net profit to £128,517 (£143,327). Net profit of Savory & Moore amounted to £88,824 (£107,389); to taxation, £61,759 (£62,955); preference dividends, £17,482 (the same); to general reserve, £5,000 (the same); to capital reserve £605 (nil); carried forward £110,106 (£106,128). No ordinary dividend is proposed; the intention to strengthen the company's reserves and surplus.

**ANGLO-AMERICAN PHARMACEUTICAL CO., LTD.**—In the Chancery Division recently a petition was dismissed for the compulsory winding-up of the company. Counsel for the petitioners said the matter had been standing over for four weeks. The peti-

tion was by a judgment creditor for £38,000 and it was opposed by the company and nineteen creditors whose debts were just under £10,000. A meeting was ordered of the unsecured creditors to decide whether the company should be wound up voluntarily or compulsorily. Creditors attending the meeting were, with the exception of the petitioners, unanimous that there should be no liquidation. A large body of creditors were in favour of the petition being adjourned. Counsel for the company and the opposing creditors asked the judge to dismiss the petition as that was the view of the majority of the unsecured creditors.

## BUSINESS CHANGES

**BOOTS, LTD.**, are opening a branch at 11 High Street, Dingwall, Ross, on December 4.

**MR. DAVID G. O'LEARY, M.P.S.I.**, is open a pharmacy at 1 Cathal Brugha Street, Dublin.

**MRS. B. A. HEFFERNAN, M.P.S.I.**, is open a pharmacy at 310 Deer Park Road, Mount Merrion, co. Dublin.

**MR. I. MICHAELS, Ph.D., Ph.C.**, has acquired the pharmacy of D. L. Lewis, Ltd., 36 Haven Green, London, W.5.

**M. W. HARDY & CO., LTD.**, have moved to Pinners Hall, Great Winches Street, London, E.C.2 (telephone: London Wall 7131).

**MACDONALD & SON, LTD.**, Hope Mill, Pollard Street, Manchester, 4, have appointed Mr. James Ross their representative in the Glasgow and South-west Scotland area.

**MR. MICHAEL MACMAHON, M.P.S.I.**, acquired the pharmacy at Ballyragget, Kilkenny, formerly owned by Miss A. T. ney.

**F. E. HOOKWAY & CO., LTD.**, 10 E.cheap, London, E.C.3, have established a branch in New York, U.S.A., in the name of F. E. Hookway & Co., Ltd. (London Inc.), 133 Front Street, New York 5.

**THE oil and chemical division and Northern sales office of Coalite and Chemical Products, Ltd.,** has removed to 14 sover, Chesterfield (telephone: Bolsover 401).

**MR. WALTER AMOR**, who has been export manager of Solport Bros., 1, London, E.C.1, for the past eleven years, is resigning shortly to manage a business of his own in East Anglia.

## THE WEEK IN PARLIAMENT

By a Member of the Press

**E**HE Penicillin (Merchant Ships) Bill (see *C. & D.*, November 25, p. 571) received second reading in the Lords on November 17. LORD SHEPHERD, moving, said that medical advice of the first order had been taken, and it was felt that the slight relaxation proposed in the Bill would not add to any great danger arising from possible emergence of resistant strains of bacteria or the possible masking of disease by an indiscriminate use of the drug. LORD DESLEIGH hoped that special precautions could be taken to ensure that the penicillin kept in the medical lockers of merchant ships was always of sufficiently recent manufacture to ensure that it was up full strength and effectiveness.

The Dangerous Drugs (Amendment) Bill was read the third time and passed on November 20.

### Cancer Experiments

MR. PETER FREEMAN asked the Lord President of the Council, on November 23, at other inquiries, in view of the fact that more than 2,900,000 people had died from cancer in the past half century, and at the 1,200,000 vivisection experiments on living animals performed during the same period had "failed to reveal the cause," were being conducted to discover the cause and cure of the disease, particularly as Great Britain now had the highest percentage of mortality in the world. MR. HERBERT MORRISON: I do not accept the implication in the first part of the question. I am advised that a great deal of information about cancer has been gained through experiments on animals, and valuable methods of treatment of certain forms of cancer have resulted. . . . Correct studies of cancer in human patients are also carried out under the Medical Research Council.

### Advertised Drugs

DR. BARNET STROSS asked the Minister of Health on November 23 if he was aware that some manufacturers of drugs which are widely advertised and expensive and for which there were satisfactory alternatives "are urging medical practitioners to portion prescriptions for nationally advertised remedies, and what steps has he taken to end this undesirable practice." DR. ANEURIN BEVAN replied that the doctors themselves were well able to deal with

### Gallery, House of Commons

the matter, and said that any doctor who refused importunate demands had his full support. MR. H. STRAUSS was told that statistics were not available to show what proportion prescriptions for nationally advertised medicines bore to the total number of prescriptions given under the Health Service.

### Mannitol

MR. G. W. ODEY asked the Minister of Food on November 24 whether he was prepared to sponsor the import of mannitol for the manufacture of sweet base for diabetics, in view of the lack of other suitable alternatives for sugar. MR. F. T. WILLEY (Parliamentary Secretary to the Ministry of Food) said he was advised that mannitol was not a medical necessity. It was obtained almost entirely from dollar sources, and many other suitable sweetening agents were already on sale. "In these circumstances I do not think that we would be justified in sponsoring its import."

### Packing Materials

MR. HENRY PRICE raised the matter of packing materials on November 24, declaring that the country was seriously short of all kinds of paper and board.

MR. HAROLD WILSON (President of the Board of Trade) replied that for many years ahead the country might be faced with a serious problem because of permanent world shortages of materials.

## LEGAL REPORT

**Pharmacy Act Fines.**—When Bell Wilson, Ltd., Dunstable Road, Luton, were charged at Marylebone, London, court recently, for selling, at their shop at 29 Thayer Street, London, W.1, Eskay Neurophosphates otherwise than under the supervision of a pharmacist, the solicitor to the Pharmaceutical Society said "We are in difficulties in these days owing to what I would describe as unqualified people with money to invest who are going into chemists' shops as an investment and are unable to find qualified men to take charge." The magistrate: "And doing well?" "Yes, doing well under the National Health Service." Solicitor added that it was important for the public protection that every chemist shop should have a qualified chemist in charge. Defendants were fined £10, with £7 7s. costs.

## DEATHS

**BAILEY.**—On November 14, Mr. Henry Bailey, M.P.S., Central Pharmacy, Matlock Bank, Derbys. Mr. Bailey qualified in 1887.

**BULLIVANT.**—In Boston General Hospital, Boston, Lincs, on November 23, Mr. Walter Bullivant, M.P.S. Apprenticed to Mr. Wilson, Pipe Office Lane, Boston, Mr. Bullivant had later gained experience in London and qualified in 1891, subsequently starting in business on his own account at 30 West Street, Boston, where he had continued to practice for the past fifty-eight years. He had been in partnership with his son, Mr. R. I. Bullivant, since he qualified in 1929.

**EDWARDS.**—At Bangor, co. Down, Northern Ireland, on November 23, Mr. Robert Irvine Edwards, M.P.S.N.I. Mr. Edwards, who had been in business in Shaftesbury Square, Belfast, for many years, was president of the Pharmaceutical Society of Northern Ireland in 1932. Three years later, when the British Pharmaceutical Conference met in Belfast, he was the Conference local treasurer. Mr. Edwards served his apprenticeship with Grattan & Co., Ltd., Belfast, and qualified under the Pharmaceutical Society of Ireland in 1904. After service with Mr. T. K. Lester, Cork; Conyngham's, Dublin; and C. & J. Montgomery, Belfast, he opened the pharmacy at Shaftesbury Square, Belfast, from which he retired some years ago (it is now carried on by his son, Mr. Robert J. Edwards). Before the formation of the Northern Ireland Society, Mr. Edwards was a president of the North Irish Pharmacists' Association and a committee member of the Ulster Retail Drug Trade Association. Mr. Edwards is also survived by his wife and a daughter.

**HANNA.**—On November 14, Mr. Frederic Hanna, 168 Framingham Road, Sale, Ches, aged sixty-nine.

**INGLIS.**—At Coogee, New South Wales, Australia, on November 18, Mrs. Sarah J. Inglis (widow of Mr. William Keiller Inglis, M.P.S., formerly of Delph, Yorks, and Leicester), aged eighty-four.

**WANDER.**—In Lugano, Switzerland, recently, Dr. Albert Wander, aged eighty-three. Dr. Wander was the founder and, until a few years ago, chairman of A. Wander, Ltd., and was the originator of Ovaltine.

## WILLS

MR. L. D. POWELL, M.P.S., 116 Molfor Road, Thornton Heath, Surrey, left £428

MR. A. E. DURNO, Ph.C., Prioryhill Peterculter, Aberdeens, left £28,096.

MR. H. P. HAGUE, M.P.S., 251 Alceste Road South, Kings Heath, Birmingham left £9,491 (£8,889 net).

MR. C. B. D. MOWSON, M.P.S., 21 Ashby High Street, Scunthorpe, Lincs, left £3,734 (£3,607 net).

MR. H. M. TRANMER, M.P.S., J.P., 9 St. Paul's Road, and High Street, Smetwick, Staffs, left £10,418 (£10,187 net).

MR. G. TRANENT, M.P.S., 87 Turnpike Lane, Hornsey, London, N.8, left £5,555 (£5,555 net).

MR. L. BARCLAY, Crest View, Fairmead Road, Edenbridge, Kent, chairman Barclay & Sons, Ltd., Farringdon Street, London, E.C.4, left £9,959 (£9,582 net).

MR. J. MACPHAIL, M.P.S., Marin Lodge, 38 Waterside, and 12 Bridgegate, Irvine, Ayrs, formerly of Kelvinside, Glasgow, left £8,576.

MISS E. M. R. BAXTER, retired pharmacist, Morenish House, Braemar Road, Bala, later, Aberdeens, formerly of Grangemout, Stirlings, left £24,783.

MR. E. J. WHEELER, M.P.S., 89 Daw Road, Fulham, London, S.W.6, former of Southfields, London, S.W.18, left £7,000 (£6,971 net).

MR. J. A. DOIG, M.P.S., 49 Windsor Terrace, South Gosforth, Newcastle-on-Tyne, formerly of East St. Andrews, left £8,488.

MR. O. G. WRIGHT, M.P.S., Old Hill Farm, Meriden, Warwicks, formerly Bannister & Thatcher, Ltd., High Street, Birmingham, left £7,000 (£7,057 net).

MR. A. BATE, J.P., 94 Aldcliffe Road, Lancaster, retired pharmacist, former principal of Bate & Gorst, chemists, Market Street, Lancaster, left £40,500 (£40,447 net).

MR. J. THECKSTON, M.P.S., 309 Silverbank Road, Wallasey, Ches, and 102 Victoria Road, New Brighton, Ches, left £25,813 (£25,076 net). He left his business of a chemist at 102 Victoria Road, New Brighton, to Miss Edna Alice A. Taylor, M.P.S., if in his service.

## PERSONALITIES

MR. E. A. BAILEY, M.P.S., Boston, Lines, has been admitted an Honorary Freeman of the town.



MR. BOYINGTON, whose appointment as field sales manager with Richard Hudnut, Ltd., was announced recently (*C. & D.*, Nov. 25, p. 576), was for many years the company's representative in the North of England and later sales supervisor of the company.

ALDERMAN P. R. HILL, Ph.C., J.P., was granted admission to the Honorary Freedom of the Borough of Great Yarmouth at a ceremony in the town recently.

MR. G. R. PAGE, B.Sc., Ph.C., A.R.I.C. (member of the pharmaceutical Anglo-American productivity team), joined Evans Medical Supplies, Ltd., in 1939. [Corrected note.]

MR. A. G. C. HEAD recently celebrated his twenty-fifth year of service with the International Chemical Co., Ltd., and its associated companies, of which he is a rector and secretary.

MR. ARTHUR H. BENTLEY, Ph.C., B.A., whose description of post-war pharmaceutical business in Hong Kong appears on p. 625 entered the Colonial Service in Hong Kong in 1938 and became acting chief pharmacist three years later.

When the Japanese invaded the island he escaped to Free China and became professor of pharmacy in the National School of Pharmacy, Chungking. He resigned from the Colonial Service in 1945 to accept the post of Hong Kong manager of a firm of agents for British and American pharmaceutical manufacturers. Mr. Bentley is at present in Britain.



MR. EDWARD W. TWISS, M.P.S., has been appointed chairman of the finance committee of No. 23 Hospitals Group of the Manchester Regional Hospitals Board.

MR. OBED ROBERTS (chairman, Denbigh and Flint Executive Council) has been installed president of the Association of Welsh Executive Councils.

MR. L. CHARLES WALLACH recently celebrated his sixtieth anniversary as a member of the board of directors of Sterns, Ltd., and their associated company, Sertonol. Mr. Wallach joined the company's predecessors in 1890 and has been a governing or managing director for the past forty-three years.

MRS. MARGARET K. WADHAM, M.P.S., of the Weston-super-

Mare Pharmacists' Association, has been in business in Weston-super-Mare since the end of the second world war. She trades under her former name, M. K. Buckingham, to distinguish her business from that of her husband, Councillor G. F. Wadham, M.P.S., F.B.O.A., who is engaged in optical practice in the town. Mrs. Wadham was apprenticed with Boots, Ltd., at Godalming, Surrey, and after qualifying in 1926 returned to the same company's service until her first marriage in 1931. The following year she opened a new pharmacy in Welling, Kent, later working in private pharmacy in Brighton, and in 1939 opening a pharmacy at Surbiton, Surrey. During the war she was a member of the British Red Cross Society and a gas identification officer.

MR. J. K. HARVEY, M.P.S., Mitcham, Surrey, has received congratulations from the Pharmaceutical Society on the fiftieth anniversary of his qualification as a member. Mr. Harvey, who is seventy-two, has been dispensing at his pharmacy (now J. K. Harvey (Chemists), Ltd.), St. Mark's Road, Upper Green, Mitcham, for forty-six years. He still gives the business his personal supervision.



## TRADE NOTES

**Stabilised Adrenaline Cream.** — Camden Chemical Co., Ltd., 61 Gray's Inn Road, London, W.C.1, are issuing, under the name Cortexol, a stabilised adrenaline cream for rheumatism and fibrositis.

**Theatre Glasses.** — Kershaw-Soho (Sales), Ltd., Mortimer House, 37 Mortimer Street, London, W.1, have introduced a range of theatre glasses in attractive shapes and colours.

**Olive Oil and Gums.** — Central Commercial Co., Inc., 10 Odos Ionos, Athens, Greece, are exporters of olive oil, aromatic herbs (sage, thyme, etc.), gum mastic and almond-tree gum, and are interested in the importation into Greece of penicillin and sulphonamides.

**Foot Aids and Appliances.** — A new trade price list issued by the Scholl Manufacturing Co., Ltd., 182 St. John Street, London, E.C.1, gives price increases for Dr. Scholl's foot aids and appliances effective from December 1. Any chemist who has not yet received a copy of the list may obtain one from the company.

**Fancy Goods Fair.** — The second annual Fancy Goods Fair (for trade buyers) to be held at Harrogate, January 8-12, 1951, will include a variety of toilet goods. It will be the first trade show of the Festival of Britain year and a large number of the exhibits on display will be shown later at the Festival.

**Adhesive in New Pack.** — Copydex Manufacturing Co., Ltd., 242 Harrow Road, London, W.2, announce that Copydex, a many-purpose adhesive, is now available in a 4-oz. jar, fitted with brush. Copydex is useful for pasting photographs as it does not wrinkle paper, secures textile materials without stitching, and is immediately removable from the hands.

**Display Association Membership.** — The British Display Association, Chronicle House, Fleet Street, London, E.C.4, are admitting retailers to a special form of lecture membership, details of which may be obtained from the secretary. They also announce the formation of a Self-Service Development Association, to advise on the self-service method of retailing.

**Whooping-cough Treatment.** — Bayer Products Ltd., Africa House, Kingsway, London, W.C.2, announce the introduction, in bottles of 15 mils, of an alcoholic solution containing 0.6 per cent. Eumydrin.

The new product meets a demand from the medical profession, following favourable reports on such a solution in treating whooping cough.

**New Dermal Ointment.** — H. R. Napp Ltd., 3 Clements Inn, London, W.C.2, are introducing to the medical profession a new speciality, Sorosil ointment, in small cartoned collapsible tubes. The preparation is claimed to ameliorate dermal irritation in pruritus, prurigo, eczema haemorrhoids and other inflammatory conditions of the skin.

**Supplies Available.** — Roche Products Ltd., Welwyn Garden City, Herts, announce that they are now in a position to supply two new Roche preparations: Becosym syrup, a palatable preparation containing five factors in the vitamin-B complex, and Gantrisin tablets containing 0.5 gm. per tablet of a new, highly-soluble sulphonamide. Becosym is issued in packings of 60 c.c. and 16 fl. oz.; Gantrisin tablets are issued in packings of 20 and 100.

**Methyl Ephedrine in Enuresis.** — Describing ephedrine as the "most successful drug" in dealing with bed-wetting children, Hubble ("British Medical Journal," November 11, p. 1110) adds that methyl ephedrine is more prolonged in action and has fewer side-effects. Moor Medicinal Products, Ltd., London and Aberdeen, draw attention to their Methep brand methyl ephedrine hydrochloride tablets, which are available in bottles of twenty-five and 100 and dispensing pack of 500 tablets.

**Sweetener for Diabetic Patients.** — Abbott Laboratories, Ltd., Wadsworth Road, Perivale, Middlesex, draw attention to their product Sucaryl (sodium cyclamate), a synthetic sweetening agent with no food value intended for use by diabetics or other patients for whom limitation of carbohydrates is desirable. Sucaryl is claimed to have the advantages over saccharin that it leaves no bitter after-taste if used moderately and does not decompose at baking or boiling temperatures when used in cooking foods.

**Photography Shown to Schoolboys.** — The 1951 Schoolboys' Own Exhibition, to be held at the Horticultural Hall, London, S.W.1, in January 1951, will once again include an exhibit by Johnson of Hendon Ltd., London, N.W.4, in co-operation with

Kodak, Ltd., London, W.C.2. The stand will be subdivided into sections in which convenient numbers of visitors to the exhibition will be shown how best to take their photographs and how films are developed. Contact-print making will be explained, and the prints will be developed and shown at the exhibit.

**Molybdenised Iron.** — British Chemotheutic Products, Ltd., Kemtheutic House, Bradford, Yorks, have commenced the manufacture in Britain of Moldomia molybdenised iron, which is being currently prescribed for hypochromic iron deficiency anaemias. Preparations available from the company include Moldomia Simplex tablets in taxable retail packs of seventy-five and dispensing packs of 100, 500 and 1,000; Moldomia Simplex tablets (children's size) in similar packs; Moldomia implex elixir, standard and children's, in taxable bottles of 5 oz. and in dispensing packs of 6 oz. and 80 oz.

**Trade Exhibits.** — BOOTS, LTD., and ORGANON LABORATORIES, LTD., were stand-holders at an exhibition held in Airdrie, Lanarks, in October, entitled "Discovering Airdrie." — The annual London show of IDNICK & CO., LTD., 52 Ormside Street, London, S.E.15, is being held at the company's new showrooms at that address, November 6-10. — One display in a series of autumn exhibitions, organised by UNITED CHEMISTS ASSOCIATION, LTD., was held in London recently. A comprehensive display of Ucal packed goods, sundries, showcards, etc., was so arranged that upwards of eighty chemists could view them in comfort at the same time.

**An Aqueous Penicillin Suspension.** — Glaxo Laboratories, Ltd., Greenford, Middlesex, announce the introduction of Myliten, a ready-prepared aqueous suspension of procaine penicillin. The suspension obviates the physical disadvantages of penicillin injections, in which the use of oil tended to interfere with the manipulation of the product. On shaking, a uniform, easily-injected suspension is formed, and in each ten-dose vial sufficient overage is allowed to permit withdrawal of ten c.c. doses. The preparation is reasonably stable and keeps for twelve months at room temperature. Myliten also contains 2 per cent. of dispersing agents and 0.025 per cent. Cetrimide, a wetting agent with bacteriostatic properties. The makers announce that it will be available on the home market from December 4.

### Miniature Steriliser.

— The Hawkins Boilette illustrated, which is manufactured by L. G. Hawkins & Co., Ltd., 30 Drury Lane, London, W.C.2, comprises a Pyrex tumbler and 460-watt element with chrome cover. It boils small quantities of liquid in under two minutes. The egg indicates the size of the utensil and its capacity for sterilising small instruments.



**Price Lists.** — BAYER PRODUCTS, LTD., Africa House, Kingsway, London, W.C.2, have mailed to chemists in the United Kingdom and Northern Ireland a copy of their latest price list, with altered prices effective from November 1. Any chemist who has not yet received a copy should apply for one. — EVANS MEDICAL SUPPLIES, LTD., Speke, Liverpool, 19, have issued a leaflet giving the current prices of surgical dressings. — ROCHE PRODUCTS, LTD., Welwyn Garden City, Herts, have issued a new trade price list incorporating recent price reductions in Beflavit, Benerva, Benerva compound, and Redoxon preparations. — ROUSSEL LABORATORIES, LTD., 4 Golden Square, London, W.1, have circulated a price list that incorporates the reduced prices for hormone preparations that came into operation on October 2. Additional copies may be obtained from the company.

**Buffered Crystalline Penicillin.** — The Distillers Co. (Biochemicals), Ltd., Speke, Liverpool, 19, announce the availability, through their distributors, of buffered crystalline penicillin-G potassium salt in containers of 0.2, 0.5, 1.0, 5 and 10 mega units at the same prices as the non-buffered material. It has been shown, the makers point out, that the naturally occurring "non-penicillins" in amorphous ("coloured") penicillin act as buffering agents, delaying the breakdown of the material in solution. Although their removal in the manufacture of crystalline penicillin-G leads to improvements in potency, colour and storage properties (in the dry state), the resultant product is unstable in solution. That disadvantage is overcome by the addition of a suitable buffering agent to the crystalline material. In the new product the agent used is sodium citrate.

## PROPRIETARY ARTICLES TRADE ASSOCIATION

### Additions to Protected List (Part 1).

*Curacho Co.*, Athletic bath salts, 12-oz., 20s. 3d. doz., tax 33½ per cent., inclusive retail price, 2s. 10d.

*Nurse Sykes Co.*, Nurse Sykes' powders (chemists' pack), eight powders or sixteen tablets, 10s. 6d. doz., tax 33½ per cent., i.r.p. 1s. 6d.; tablets, thirty-six powders or seventy-two tablets, 48s. 6d. doz., tax 33½ per cent., i.r.p. 6s. 3d.; single powders or two tablets, 2½d. per unit.

### Alterations to Protected List (Part 1).

*John H. Buffham*, increased prices, November 20, Resinol ointment, 1-oz., 32s. 3d. doz., tax 33½ per cent., i.r.p. 4s. 6d.; 3½-oz., 54s. doz., tax 33½ per cent., i.r.p. 7s. 6d.

*Chesebrough Manufacturing Co., Ltd.*, corrected price, Channel Islands, Vaseline brand petroleum jelly, yellow No. 1 size, bottle, 54s. per gross, 6d.

*J. G. Ingram & Son, Ltd.*, Enemas: Perfect, 6s. doz., 6s. 10½d.; Zenith, 7½s. doz., 8s. 3d.; Utilena, 7½s. doz., 8s. 3d.; Atlanta, 7½s. 9d. doz., 9s.; Zebina, 7½s. 9d. doz., 9s. 6d.; Sterilendum, 8½s. 9d. doz., 9s. 9d.; Eclipse, 96s. 6d. doz., 11s. 9d.; Adaptable, 107s. 6d. doz., 12s. 6d. Spiral teat, 64s. gross, 8d.; valve, 48s. 6d. gross, 6d. Omega soother, 105s. gross, 1s. 1d.; Eclipse whirling-spray, 107s. doz., 13s. 4d.; Omega whirling-sprays, 135s. doz., 17s. 6d. (all exempt from tax).

*Eli Lilly & Co., Ltd.*, Reduced prices to trade, November 1, to public, December 1: Amytal tablets, No. 1575: gr.-½, 40's, 14s. doz., 1s. 9d.; 500's, 112s. doz., 12s. 6d.; No. 1550, gr.-½, 40's, 18s. doz., 2s. 3d.; 100's, 36s. doz., 4s. 6d.; 500's, 144s. doz., 18s. Amytal tablets, 12's withdrawn; No. 1462, gr.-½, 40's, 28s. doz., 3s. 6d.; 100's, 56s. doz., 7s.; 500's, 20s. each, 30s. (tin of twelve withdrawn). Enseals Seconal sodium, No. 51: gr.-½, 25's, 40s. doz., 5s.; 100's, 120s. doz., 15s. Pulvules Seconal sodium, No. 243: gr.-¾, 40's, 32s. doz., 4s.; 100's, 72s. doz., 9s.; 500's, 25s. 4d. each, 38s.; No. 240: gr.-½, 40's, 44s. doz., 5s. 6d.; 100's, 96s. doz., 12s.; 500's, 36s. 8d. each, 55s. Pulvules sodium Amytal, No. 111, gr.-1, 40's, 28s. doz., 3s. 6d.; 100's, 60s. doz., 7s. 6d.; 500's, 21s. 4d. each, 32s.; No. 222, gr.-½, 40's, 56s. doz., 7s.; 100's, 120s. doz., 15s.; 500's, 46s. 8d. each, 70s. Pulvules Tuinal, No. 303, gr.-½, 40's, 40s. doz., 5s.; 100's, 92s. doz., 11s. 6d.; 500's, 33s. 4d. each, 50s.; No.

34, gr.-3, 40's, 64s. doz., 8s.; 100's, 140s. doz., 17s. 6d.; 500's, 52s. each, 78s. (all exempt from tax).

*Allen & Hanburys, Ltd.*, Lixen elix 4 fl. oz., 19s. 3d. doz., tax 33½ per cent. inclusive retail price 2s. 10d.; 8 fl. oz. 36s. 6d. doz., tax 33½ per cent., i.r.p. 5s. 4d. Lixen lozenges, 30's, 17s. doz., tax 33½ per cent., i.r.p. 2s. 6d. Lixen pastilles, 30's, 15s. 3d. doz., tax 33½ per cent., i.r.p. 2s. 3d.

*Bayer Products, Ltd.*, Carriage paid on orders value £2 and upwards. Small orders are subject to a charge of sixpence. This does not apply to bulky material packed in bottles which are charged cost.

## PRODUCTION OF TOILET PREPARATIONS

A CENSUS of Production preliminary report (No. 88) on the toilet preparations and perfumery trade has been published by the Board of Trade. The report relates to "establishments engaged who or mainly in the manufacture of cosmetic hair dressings, bath salts, shampoos, toothpastes and powders, perfumes, etc., a which employed more than ten persons the average during the year." About 10 per cent. of the total net output of the establishments for 1948 is covered by returns which have been compiled for inclusion in this report. This trade corresponds to minimum list heading 32 (2) the Standard Industrial Classification. Establishments in Northern Ireland are included in 1948; no production was recorded there in this trade for 1937 and 1935. The following table gives a general summary of the report; further details given in the "Board of Trade Journal" November 25:

	1948	1937	1935
Number of establishments	80 £'000 16,983	... £'000 7,934	£'000 6,120
Value of gross output...			
Materials, fuel and electricity used ...	8,152	2,702	2,000
Amount paid for work given out ...	10	3	—
Net output ...	8,821	4,329	3,120
Wages and salaries ...	2,681	...	—
Average number of persons employed (excluding outworkers) ...	9,338	7,307	6,120
Net output per person employed (excluding outworkers) ...	£945	£592	£480

## TESTING OF SURGICAL DRESSINGS

JOINT meeting of the Western Pharmacists' Association and National Association of Women Pharmacists was held in London on November 15, at which MR. L. B. ANSLEY, M.C., M.A., M.Sc., F.R.I.C., gave an address on "The Testing of Surgical Dressings." Surgical dressings and appliances, said the speaker, were an example of what one might call an industry within an industry. Dressings manufacturers seemed to concentrate on their own class of work and to make little else. Their business must be somewhat nerve-racking, for they had usually to conform to rigid specifications for most of their trade. When instructions for bulk supplies of those materials were carried out, packs were weighed, and samples selected, briefly examined and taken away to the laboratories to be exhaustively tested against the requirements. The programme of testing under the National Health Service was designed to act as a check on the maintenance of standards of quality and to ensure that there was no drift away from them, even involuntarily. Deficiencies could arise from accidental errors in production, from degeneration in old stock or simply from lack of complete understanding of the directions. Occasionally it was discovered during an inspection of bulk supplies that medicament had been omitted entirely or a substitute incorporated in error. A machine might have become worn-out without the management becoming aware of the fact. A weighing or measuring instrument might have gone wrong. Unless goods were closely examined in a technological laboratory the difficulty might never be found until all the products had been distributed.

Agreements between the chairmen of the Executive Councils of the cities and boroughs of England and Wales and the director of the Manchester Chamber of Commerce Testing House provided that each locality should send in a fixed quota of appliances for examination during specified months. At intervals the Councils forwarded to the Testing House their allotted number of samples, with a copy of the doctor's prescription. The dressings were acquired across the counter by an agent presenting a prescription, the pharmacist being unaware of their destination until he had handed over the goods. When the tests were completed, certificates in duplicate were dispatched from the laboratory to the Councils, which could, if the

dressing did not conform to the Drug Tariff particulars, summon the pharmacist to appear before it. Should that happen, the chances were that the chemist would place the onus on the manufacturer, unless the fault was clearly his own responsibility (as from bad or too lengthy storage). Recommended after the 1939-45 war, the scheme had now been in operation for a year and three-quarters.

The speaker showed actual examples to his audience of dressings that had been found deficient in various ways, some of them quite unexpected. He concluded: "Now the air is full of fresh ideas for new inclusions in the Codex and I can advise you to watch the supplement closely."

## HEALTH SERVICE REPORTS

THE following statistics refer to the year ended March 31 unless otherwise stated:

**Scotland.**—Total cost, £17,115,185; received by pharmacists and appliance manufacturers, £3,763,433; prescriptions dispensed, 12,584,<sup>154</sup>.

**London.**—The Finance Committee of the London Executive Council sets its estimates of expenditure for the year 1951-52 at £12,223,620, of which £2,738,340 is for the pharmaceutical services.

**Lancashire.**—The average cost of N.H.S. prescriptions has risen from 1s. 1d. to 3s. 2d., and the number of prescriptions from 383,700 to 879,142 per month. In the current year the Service is expected to cost £6,209,900.

**East Ham.**—The number of prescriptions dispensed during the year ended June 1 was 635,969 and the amount paid to chemists was £79,626 (excluding final payments February to June). Persons on doctors' lists numbered 123,885 and there were twenty-eight pharmacist contractors.

**Essex.**—The second annual report of the Essex Pharmaceutical Committee, recently published, records that there were 369 pharmacies, nine drug stores and forty-four other contractors in the county, and 187 doctors who dispensed for some or all of their patients. Payment made for pharmaceutical service for the year was £1,108,685, and average number of prescriptions per form, 1.58. A doctor who marked an unusually large number of prescriptions "urgent" was asked to be very careful in future since many were proved to be not urgent.

# A NEW FACTORY IN NATAL

A NEW factory for Allen & Hanburys (Africa), Ltd., was opened at Congella, Natal, South Africa, by Mr. F. Capel Hanbury, J.P., Ph.C. (chairman of Allen & Hanburys, Ltd., Great Britain), recently at a ceremony attended by Hon. D. G. Shepstone (Administrator of the Province of Natal) and other distinguished visitors. The new premises occupy 51,000 sq. ft., and accommodate the packed drug and printing departments and manufacturing laboratories of the company.

Mr. Hanbury pointed out, in an account of the history of the parent company, that it was established by Silvanus Bevan, F.R.S., at Plough Court, London, in 1715, one hundred years before Durban was



to Mr. T. R. Walton, M.P.S. (one of those present), for his contribution to the success of the South African company, as manager and as managing director, 1912-47. He had retired in 1947.

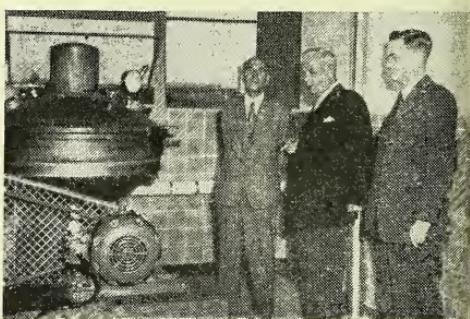
Parallel with the progress medical science had made, pharmaceutical manufacture and technique had made advances. The preparation of sterile injection solutions today represented a large proportion of the manufacturing chemist's activities, and in the new factory that had been given much attention. The sterile department would be equipped to manufacture sterile distilled water and normal saline to meet the increased demand resulting from the use of antibiotics. In addition, sterile injection solutions were to be made to satisfy the requirements of modern medicine. The manufacture of the galenicals of the British Pharmacopœia and other official formularies was to be enlarged and modernised, and a wide range of tablets would be made. The medical and counter specialities of the company would also be made at Congella, and the control laboratories would cater for, among other processes, tests on rabbits to ensure the absence of pyrogens in solutions for parenteral use. Mr. Hanbury praised Mr. G. G. McIntyre, M.P.S. (managing director), and the staff of the South African company.



Mr. F. Capel Hanbury delivers the inaugural address.

founded. A great part in the company's growth had been taken by William Allen, who had developed the firm along scientific lines. A humanitarian and philanthropist, Allen's activities embraced all efforts for the social and spiritual benefit of the human race. With Thomas Clarkson and William Wilberforce he had assisted the suppression of the slave trade in the British Colonies. He had founded the African Institution and had done great work for elementary education.

After the conclusion of the South African war the company's directors had felt there was an opportunity in South Africa, and the African subsidiary was established in Cape Town. In 1904 a dépôt was opened in Durban and in due course the premises at Smith Street were purchased and developed into the company's factory and headquarters. A surgical instrument branch was opened in Johannesburg in 1922. Mr. Hanbury paid special tribute



Mr. F. C. Hanbury with the Hon. D. G. Shepstone and Mr. G. G. McIntyre in a tour of the factory.

## TWO DAYS AT RUNCORN AND SPEKE

Invitation of Evans Medical Supplies, Ltd., the Editor joined hospital pharmacists from Aylesbury, Bristol, Leeds, London, Nottingham, Oxford, Portsmouth, Southampton and Worksop recently in a visit to Liverpool, Runcorn and Speke. Groups from the West, South, and South Midlands travelled overnight and spent the following morning visiting the penicillin production plant of the Distillers Co. (Biochemicals), Ltd., Speke, where, after a brief explanation of the division of the works broadly into three units (mould-culture, solvent recovery and penicillin separation) they were shown the various processes in operation. After inspecting rough glass walls the company's large rifle department, and being shown the extensive power-house and vacuum plant, and the "animal house" (where the penicillin is physiologically tested for absence of toxicity and freedom from pyrogen) the visitors completed the tour in good time to be taken to Runcorn—via the transporter bridge—to keep a date for lunch with the director and executives of Evans Medical Institute.

At Runcorn they were joined by others who had arrived in Liverpool during the morning. The combined party lunched very agreeably with members of the Institute staff under the chairmanship of Dr. Riding (medical director).

For the afternoon at the Institute a number of practical demonstrations had been arranged of operations not ordinarily seen by pharmacists, such as the dissection of

the spinal cord of a sheep and the drawing-off of serum from a horse. Lucid explanations were given of the major processes carried out at the Institute.

In the evening, Dr. Riding again presided at a dinner in Liverpool at which Messrs. Evans were the hosts, and at which some of the guests distinguished themselves as resourceful impromptu entertainers.

Friday's programme began with a two-way run through the Mersey tunnel, followed by a tour of the workshops and organic compounds unit under knowledgeable guides. The company's elaborate and possibly unique system of conveyor belts devised for the speedy assembly and dispatch of chemists' orders was seen in all its efficiency, the syntheses of organic compounds in progress at the time were admirably explained by the deputy manager of the department (Mr. C. E. Beyts, M.A.), and visits to the boiler room, power house, etc., confirmed a general impression of carefully planned production in the most modern manner.

After lunch in the works canteen the party again split up into smaller groups for a close inspection of the large and busy sterile products unit before returning by coach to Lime Street Station for the train journey home. With so much dovetailing of small groups to be done, the tour was a masterpiece of successful organisation, and Mr. W. J. Merrick (public relations officer), who is understood to have been personally responsible, rightly received the congratulations of all concerned.



Provincial hospital pharmacists at Speke works of Evans Medical Supplies, Ltd. In the front row is Mr. W. A. Kinnear, M.A. (home sales director).

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VOL. CLIV DECEMBER 2, 1950 No. 3693

### Gross Errors About Earnings

UNDER headlines suggesting that chemist-contractors earn an average of over £2,000 a year from National Health Service dispensing, many evening papers on November 25 and dailies on November 26 gave Ministry of Health figures relating to the pharmaceutical service. The National Pharmaceutical Union is to be congratulated on giving a prompt denial of the misleading headlines, which were rightly described as "a travesty of the facts," and of listing the various items (cost of materials and containers, 60 per cent., overheads and salaries) after meeting which only a small fraction of the gross payment remained as earnings to the contractor. While, however, some newspapers (notably the "Observer" on November 26 and the "Daily Telegraph" on November 27) gave publicity to the denial, it is doubtful whether the net impression left on a majority of users of the service is not very unfavourable to chemists. Indeed, it is doubtful whether headlines such as "Chemists Deny £2,244 Earnings" do not strengthen rather than correct the suggestion that chemists are being paid at rates far in excess of what they are in fact receiving.

In the matter of Press publicity, chemists are almost invariably unfortunate. What the remedy may be for that state of affairs is not easy to suggest, since one would have thought that the facts that chemists in England and Wales had been vociferous in pointing out the injustice they were suffering from accumulating arrears of payments, and that chemists in

Scotland and Northern Ireland had been incensed to the point of sending in their notices to withdraw from the National Health Service, would have suggested to the reporters concerned that some apparent discrepancy between their complaints and their supposed £2,000 a year income would at least warrant an explanation from their spokesmen. It did not, apparently prompt any such inquiry, and the question arises whether more positive action by chemists to put themselves right with the public is not called for. It can be done in part by chemists at their own counters, but additional action, by renewed publicity (if necessary in the advertisement columns) in the national Press may in present circumstances be warranted.

### Sulphur Scarcity

THE chemical industry is faced with a serious shortage of sulphur, and it is probable that the position will worsen in 1951 as a result of a reduction in imports from the United States. According to American trade sources, current world production of sulphur is at the rate of about 5.7 million tons a year, and demand at about 6 million tons a year. The United States is by far the largest producer, accounting for over 90 per cent. of world output and practically all world exports. North America is currently consuming sulphur at the rate of about 4.5 million tons and producing about 5 million tons annually. American natural supplies of sulphur are, in fact, rapidly being used up. Sulphur companies have been prospecting for further deposits, but in the past ten or fifteen years no new beds of any size have been located. "Domes" lying off the coasts of Texas and Louisiana certainly contain sulphur, but no practical scheme has been put forward for exploiting them.

Meanwhile demand for sulphur is increasing, and there are moves in America to restrict both domestic consumption and exports. U.S. producers have already cut supplies to domestic consumers by 20 per cent., while export quotas may be reduced by 35 per cent. or more (the extent of the export cut has not yet been determined). Most of the sulphur is utilised for the production of sulphuric acid. In Britain today

some 60 per cent. of the total output of sulphuric acid is produced from sulphur by burning, and it is estimated that a 35 per cent. reduction in supplies of raw material would reduce the present output of acid from approximately 1.8 million tons to 1.45 million tons.

As a long-term policy the British Government is encouraging the production of sulphuric acid from pyrites, but acid produced from this raw material is much more expensive, as the sulphur dioxide requires to be put through additional purification processes, and plant for the purpose is said to require twice the capital investment and to occupy twice the ground area. Italy, another source of sulphur, has 200,000 tons available for export to O.E.E.C. countries in 1950-51, and in subsequent years greater quantities may be available, rising to 450,000 tons in 1954-55. The Italian chemical industry is, as might be expected, strongly opposed to such a high level of sulphur exports, and would rather supply the end products than the raw material. At present, however, the Italian price is almost double the price of American sulphur c.i.f. European ports.

### World Survey of New Drugs

SINCE its formation in London in 1946, the World Medical Association has made great progress, including recognition, it is claimed, as the representative body for submitting the views of doctors throughout the world to the World Health Organisation. The W.M.A. recently completed an investigation, initiated by its General Assembly in 1949, into world pharmaceutical practice in respect of a number of new drugs, and the results of the investigation were submitted to members at the fourth general assembly of the Association held in New York recently. The particular drugs about which information was sought were sulphonamides, penicillin, streptomycin, aureomycin, chloramphenicol, arsenicals, antihistamines, antimarialls, anti-seasickness remedies, liver preparations, and vitamins. Questions about them covered sources and adequacy of supply (whether imported or manufactured or packed locally); subsidies, private or governmental, for the purchase of pharma-

ceuticals; the existence and effectiveness of pure food and drug laws; multiplicity of names; restrictions of sale to the public; and restrictions on prescribing under government or social security schemes. Twenty-four replies received from national medical associations show diversity, but reveal certain general features. One out of every two nations, for example, reports an inadequacy of supply of antibiotics. Quality control shows considerable differences. Most countries report food and drug legislation covering supply of some or all the listed drugs, but only eleven (among them Great Britain) report that the controls are effective. Multiplicity of names is a general complaint. It is noteworthy that the British supply of aureomycin (see p. 606) is expected to facilitate the export of that drug to the countries that have been hitherto unable to purchase it because of currency difficulties.

### Introducing Buyers to Sellers

THERE was inaugurated in London on November 21 a new organisation that may become of great interest and importance to British manufacturers and exporters. The Ambassadors of Trade Association, a non-profit-making body, aims to establish "export reciprocal service centres" to promote business and social contacts between buyers and sellers, and to provide a worldwide reciprocal interchange of market information. To this end the Association will co-ordinate the needs of overseas trading interests with those of buyers and sellers in Great Britain, America and elsewhere.

The Association will maintain a world list of buyers seeking direct communication with producers of raw materials or with manufacturers of consumer and capital goods and services for export. Buyer and seller members will contribute information and state their requirements in confidence. The Association will co-opt overseas buyers and if desired plan their itineraries. The scheme for syndicating overseas advertising and selling of grouped products will involve marketing under joint brand names. It is proposed to arrange for the display of syndicated merchandise in suitable showrooms in Britain and for showing the products at overseas exhibitions.



# MEDICINE FOR CHILDREN



T: 1840. "Mrs. Squeers stood at one of the desks, presiding over an immense basin of brimstone and oil, of which delicious compound she administered a large instalment to each boy in succession, using for purpose a common wooden spoon, which might have been originally manufactured for some gigantic top, which widened every young gentleman's mouth considerably, they being all obliged, under heavy corporal penalties, to take in the whole of the bowl at a gasp."—From *Nicholas Nickleby*, by Charles Dickens.

H.T: 1950. "Another argument advanced by those who would like children's medicines to remain palatable [is that] there is a danger that the child will take it for sheer delight in the flavour."—See Mr. Hadgraft's article below.

## 1. ELEGANCE INCLUDES PALATABILITY

By J. W. Hadgraft, Ph.C., A.R.I.C. (Chief Pharmacist, Royal Free Hospital)

THE pharmacist has long prided himself on the elegance of the preparations he produces. In the process of a historical development, medicine is emerging from empiricism and basing itself on sound, scientifically ascertained principles. One important function of the pharmacist is to apply to modern scientific methods the empiricism of his past development, and thus provide preparations therapeutic and pharmacological value combined with the elegance borne of past traditions of empiricism. Pharmaceutical elegance means nothing if it does not contribute to the usefulness of a preparation for the purpose for which it is intended. Hence a preparation intended for a child should be one capable of administration. No one can deny that, from this point of view, palatability of children's medicines is an important factor.

It has been stated that pleasantly flavoured medicines for children should be encouraged on the grounds that they are likely to promote a medicine-taking habit in children at a tender age. The protagonists of this view no doubt envisage a future society in which medication runs an even and uninterrupted course throughout life, commencing with the "infant, mewling and puking in the nurse's arms" and stretching out to the last scene of all, "sans teeth, sans eyes, sans taste, sans everything." It should be clearly pointed out,

however, that the need is not for pleasantly flavoured placebos but for essential drugs in forms easily administered to children. For example, sulphadiazine, prescribed in the form of 0.5 gm. tablets for young children, is invariably crushed by the parent and given admixed with jam or orange juice. The suspension, thus prepared, has none of the qualities associated with pharmaceutical elegance, and in all probability the child manifests a resistance to such crude attempts at disguising a medicine. Moreover, in their choice of flavouring agents, parents are not guided by the requisite knowledge of the stability and compatibility of the drugs.

Another argument advanced by those who would like children's medicines to remain unpalatable concerns the danger of accidental overdosage. If a preparation is pleasant to take, there is a danger that the child will take it for the sheer delight of the flavour. This is, of course, a real danger, but the responsibility surely rests with the parent to ensure that medicines of any character are stored out of reach of young children. Compound tablets of ferrous sulphate, because of their sugar coating, have been the cause of a number of fatalities in young children. No one would therefore argue that the preparation has been made excessively palatable, and there is no suggestion that sugar coating should not be applied to those tablets. Indeed,

there is an excellent pharmaceutical reason for coating them. Accidents of this kind can, in fact, only be avoided by proper education of the public.

There are sound reasons why essential drugs should be presented for children in palatable forms. If a prescribed treatment is difficult to administer, there is a danger that continuity of treatment will not be maintained. Parents will be tempted to turn from the prescribed treatment to more palatable proprietary remedies, and themselves prescribe for their children. Doctors, moreover, will be urged to prescribe the more elegant and more expensive proprietary forms of official drugs. In the light of this need for palatable preparations for children, the range of official flavouring agents is seen to be meagre indeed and it has, in fact, undergone little development in recent years. It may be of significance to note, in this connection, that the United States Pharmacopœia, XIV, has reintroduced syrup of raspberry, prepared from fresh raspberry juice, and cacao syrup,

which provides a chocolate flavour. Bo preparations provide flavours likely appeal to children and they may be used in the formulation of palatable suspensions of the sulphonamides. It may also be mentioned that raspberry syrup is suitable for inclusion in acidified mixtures of potassium citrate. The application of these and other flavours to a wider range of medicaments for children needs further attention.

The use of synthetic flavours in medicine raises other problems that can only be solved by co-operation between pharmacists and chemists engaged in the food and confectionery industries. Synthetic essences are, perhaps without exception, the subject of proprietary rights. Their use in medicine at the present time is hampered by the difficulty of providing formulas and specifications. The difficulties of using them in the formulation of official medicines are considerable, but might not prove insurmountable if the need for producing palatable preparations for children were adequately recognised.

## 2. FLAVOURING MAY NOT BE THE ANSWER

By Mary C. Islip (Chief Pharmacist, Paddington Green Children's Hospital)

**F**ROM time to time, and particularly since the advent of the National Formulary, 1949, there has been considerable criticism about the taste of children's medicines. The unpleasantness of those in the N.F. was again emphasised at the symposium session on "Formulation and Formularies" at the 1950 meeting in Glasgow of the British Pharmaceutical Conference.

### Much Depends on Method of Giving

To my mind, too much fuss is being made about flavouring mixtures for children. The difficulty of persuading young patients to take medicine often lies in the way it is given. Parents, nurses and other people in charge of children so often tell the child that the preparation is nice when it is not. They object to the taste themselves and think the child will also do so. That is particularly the case with cod-liver oil. If the administration is approached in the right way the trouble is minimised. After all, children often object to certain foods, and pleasantness of taste has little to do with the matter. They may similarly object to medicine however it is flavoured. That may be an argument against using flavourings found in foods.

The administration should be carried in as pleasant a way as possible and the child should never be deceived. In fact the root of the trouble often lies there, children are very sensitive to untruth and once their faith has been shattered they find it difficult to feel confident again in such claims.

Different ages require different ways of approach. If the grown-up who is administering the medicine is asked whether it is nice and it is not he should say so, add that there are others that taste well—as there are! A little gentle bribery often helps—a sweet, a bed-time story, something else the child enjoys.

Sweetness and colour are important, distinctive flavours can become thoroughly objectionable, particularly when given over lengthy periods. They may put a child off similar flavours for life.

To help the child to take medicine the following hints are put forward:—

### CHILDREN

1. Let the child have a medicine spoon or tumbler of his own, and where practicable and wise let him take his own "medicine" at the specified times—of course under supervision.

2. Never turn your nose up at the medicine, for by so doing you put the child off before he has even tasted it.
3. Make a game of the proceedings.
4. An attractive way to take medicine through a straw, and children like that. It is also a good way of getting plenty of id taken when that is necessary, particularly when sulphonamides are being given.
5. Tablets should be finely crushed and psules (except enteric coated ones) should, they cannot be swallowed, be opened d the contents removed. The powders us obtained may be put into an agreeable medium. Syrupy water, honey, or jam are suitable.

#### TODDLERS

Children of the "toddler" age are perhaps the most difficult since, while many the tips given for the older child apply, ten a little additional persuasion is necessary (the extra sweet, the special pleasure). Parents often say that Bovril, Marmite, or chocolate dissolved in a little milk completely mask the flavour of some medicines, armite being particularly good with any preparation having a salty taste.

#### FANTS

Infants present a different problem. Ascorbic acid and the vitamin preparations are often easily administered in a teaspoon milk taken from the bottle or expressed from the breast, or in a little sugar and water. Some substances may be put direct to the bottle, but if the child does not take the full feed the method is not satisfactory, as a proportion of the drug may be left behind in the bottle.

Some parents put the required dose into large spoon (dessert or table) and put it to the baby's mouth. The medicine often slips down more easily that way than from a teaspoon, as the child has less opportunity of movement. Unpalatable preparations should not be mixed with essential foods, as the association may put the child off the particular food. Cod-liver oil is often best administered to older children with a pinch of salt at the bottom of the spoon.

Certain flavours lend themselves to certain drugs, as orange to the citrates, dill water to carminative mixtures, ginger to cascara and rhubarb, camphor and slight niseed flavourings to cough mixtures. To great extent the National Formulary has recognised those flavours. With mixtures of the mist. gent. alk. type, where the pur-

pose is to give a bitter mixture, the best time to give it is about fifteen minutes before a meal.

Although I do not favour sulphonamide suspensions (individual doses of them may not be so accurate as tablet doses) it must be admitted that they have their uses, for, unless the tablets are finely powdered and well mixed with something before administration, they can be unpleasant to the child if not completely swallowed. For those suspensions a chocolate flavour seems to receive most approval. A tonic most children like is a mixture of "malt and oil" with syrup. ferri phosh. co. ("toffee medicine") and it is a pity it is not included in the National Formulary.

In conclusion I would say to those concerned with the formulation of children's mixtures "more colour, plenty of sweetness where appropriate and mild flavouring suited to the drug prescribed." These, in my experience, are what the child likes best.

## A PHARMACIST'S ANTHOLOGY

WALKING down Honan Road in Shanghai and passing through the shops selling Chinese medicine, one might find it hard to decide whether they sell more medicine than food or more food than medicine. For there one finds cinnamon bark standing side by side with ham, tigers' tendons and beaver kidneys along with sea slugs, and horns of young deer along with mushrooms and Peiping dates. All of them are good for the body and all of them nourish us. The distinction between food and medicine is positively impossible in the case of a bottle of tiger-tendon and quince wine. Happily a Chinese tonic does not consist of three grammes of hypophosphate and .02 grain of arsenic. It consists of a bowl of black-skinned chicken soup, cooked with rhamnia lutea. This is due entirely to the practice of Chinese medicine, for while Western medicines are taken in pills or tablets, Chinese medicines are served as stews and literally called "soups." Thus we find the earliest existing Chinese book on food, written by an imperial physician at the Mongol court in 1330, regards food essentially as a matter of regimen for health. This cook book, like all Chinese cook books, therefore, reads like a pharmacopeia.

*From "The Importance of Living,"—by Lin Yutang.*

## RESEARCH EXPENDITURE AND INCOME TAX

**A**N innovation brought about by the Finance Act, 1944, was that, for the first time, it provided for allowances to be made for capital expenditure. It thus recognised that, to achieve business profits, industrial concerns needed to undertake research and inquiries, so that their products could be improved. The original enactments of the Finance Act, 1944, were extended by the Income Tax Act, 1945, and by later Finance Acts, and the position now is that expenditure on scientific research may be divided into expenditure of a revenue nature and expenditure of a capital nature. The first is allowable as a charge against the business profits in a given year; the second now becomes allowable against business profits as a charge over a period of five years.

### Allowances as Revenue

Expenditure that can be allowed as a charge against the business profits in the year in which they are incurred are as follows:

- (a) Expenditure not of a capital nature on scientific research related to the trade or business directly undertaken by the trader.
- (b) Payments to scientific research associations as approved by the appropriate research council or committee. (The association must have as its object research connected with the class of trade to which the trader belongs).
- (c) Payments to any university, college, research institution, or similar institution, similarly approved by the appropriate research council or committee.

For expenditure prior to April 6, 1949, the procedure was to write off the expenditure over a period of five years, in equal instalments. For expenditure on and after April 6, 1949, 60 per cent. is written off in the first year, and 10 per cent. in each of the succeeding four years. It is also now provided that any expenditure of a capital nature on scientific research incurred on and after January 1, 1937, and before April 6, 1946, provided the asset upon which it has been incurred was still in use on April 6, 1949, is available for allowances as if it had been incurred on April 6, 1946, provided that any allowances granted in the period prior to April 6, 1946, are deducted.

If such expenditure is incurred before the end of the year of assessment in which the business is commenced, the allowance will be made in the first and next four income-tax years. If expenditure is incurred in the year of assessment following the date of commencement of the business, but within twelve months of its commencement, allowance is granted in the second and following four income-tax years. For expenditure incurred more than twelve months after the commencement of the business, the first allowance is made in the income-tax year corresponding to the base year in which the expenditure is incurred and the remaining allowances in the succeeding four years. It is provided that, one year is the basis of assessment for four income-tax years, the expenditure allowed only in one.

### Capital Expenditure

If an asset that has been used for scientific research ceases to be used, any balance of expenditure not allowed over and above the estimate of its valuation can be written off, provided always that, if it is sold or brought into use for some other purpose, any excess over the valuation is surcharged. The allowances granted for capital expenditure can be carried forward in the same way as wear-and-tear allowances. That is, if they are not set off against profits in any year, they may be carried forward indefinitely until used. Any expenditure, however, which is refunded as a grant from any Government or other Department does not, of course, rank among the purposes of the claim. The "appropriate research council or committee" is, for a normal trader, the committee of the Privy Council for scientific and industrial research. For other classes of traders it is either the Medical Research Council under the committee of the Privy Council for medical research, or the Agricultural Research Council under the committee of the Privy Council for agricultural research, the case may be.

The Finance Bill, 1950, contains, Clause 30, further provisions affecting research expenditure. Provided that, there is an association which (a) has as its objects the undertaking of scientific research, (b) is the association approved by the committee of the Privy Council for scientific and industrial research and precludes in its memorandum of associ-

ct or indirect transfers or payments to members, it qualifies as a charity for relief from stamp duty and income. The allowances are important to every industrial concern. If the concern is in any way connected with an association or institution to which payments are made, provided the association is approved, payments are immediately deducted for

the purposes of computing the profits for taxation purposes. Thus, if a company promotes or forms any research association, payments which it makes to that association, if approved, are immediately allowed. Should the associations themselves undertake the expenditure it must, if of a capital nature, be written off over five years.

## TRADE IN POST-WAR HONG KONG

By A. H. Bentley, Ph.C., D.B.A.

ORE 1939 Hong Kong was a quiet but highly prosperous entrepôt, a funnel through which goods, including pharmaceutical goods, flowed to and from South China, a British haven of peace on the back of her war-torn vast neighbour. From 1939 to 1945 China, the *raison d'être* of Hong Kong's importance, was usually cut off from foreign trade. The year 1946 ushered in a new and frenzied mood of life for Hong Kong, whose commercial community swelled its numbers as never before in an endeavour to profit from the expected big business between China and the West.

### om Years

At first supplies were difficult to obtain during 1947-48 — so soon as goods could be shipped — fortunes were made by my speculators and large profits by more orthodox firms. 1949 saw some falling off as the Communist forces advanced to Shanghai and Canton. Many small mushroom firms disappeared. The volume of trade done by Hong Kong importers bears no relation to actual Hong Kong consumption, the bulk of all imports being destined for the Chinese mainland whose population of forty millions contrasts with Hong Kong's two million.

The pharmaceutical trade is chiefly American manufacturers; indeed, one United States firm is generally admitted as having 80 per cent. of the total Hong Kong business in medical products and an even higher percentage of the Chinese business. The reason is partly that of cost, and — perhaps more important — of quality. There is a strong bias in favour of American goods because of their attractive packings, generous samples, and literature in its own style given freely to medical practitioners and trade inquirers. Deputation had little influence on competition between U.S. and British producers as the new U.S. dollar rate was close to

the open market rate for Hong Kong. There are only thirteen registered pharmacies in Hong Kong but proprietaries and medical products are freely sold in a multitude of small drug stores. Dispensing is limited to the pharmacies, but as most doctors do their own, very profitably, there is little demand for this service. A few leading British manufacturers employ their own representatives in Hong Kong but most rely on an agent who may be British or Chinese. Not all these agents have been well chosen: some, for example, hold competing agencies, others have no knowledge of the drug trade. Greater care in appointing an agent would almost certainly lead to greater business. Available facilities have, of course, improved, and competition is now apparent from Germany, Japan, Italy, France and Belgium. Competition from Germany, especially in products such as surgical instruments and microscopes, is keen, and it is regrettable that British manufacturers appear unable to meet this challenge.

### Prospects for the Future

The future of trade in Hong Kong depends almost entirely on China and her attitude to Hong Kong. During the first half of 1950 the Chinese trade was rapidly passing from private hands to Chinese Government purchasing agencies. Considerable business was done in raw materials, fine chemicals and laboratory supplies. It is probable that such trade will continue unless the Hong Kong Government is forced to ban exports to China. A list was issued by the authorities recently of materials of which the export from Hong Kong is prohibited.

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**Export Trade and Exchange Restrictions.**—A fourth edition (April 1950) of "British Exports and Exchange Restrictions Abroad" has been published by the Swiss Bank Corporation, London, E.C.2.

## IRISH STUDENTS' ASSOCIATION

THE annual meeting of the Irish Pharmaceutical Students' Association was held in Dublin on October 30, Mr. F. Gannon presiding. The attendance included Mr. T. C. Scott (president, Pharmaceutical Society of Ireland), Mr. J. Gleeson (treasurer), Messrs. P. A. Brady, J. G. Coleman (registrar), Dr. J. C. Dowling, and Mr. V. Gilbert (from Australia).

THE CHAIRMAN reviewed the Students' Council's work for the year. In April the chairman attended the British Pharmaceutical Students' Conference in Cardiff, and in June, Miss Hughes and Mr. Cahill had been sent to Holland for the Dutch Students' Conference. The Association wished to thank the Pharmaceutical Council for a gift of £25 to enable them to carry on. They had had few complaints or suggestions from the general body of the students, and the Council looked to the students to take an interest in their own Association. An effort had been made to establish branches in Cork, Limerick, Galway, Kilkenny and Drogheda, but without success, except at Cork.

### Help from Pharmaceutical Society

MR. SCOTT, addressing the students, said he could assure them that every help would be given to them in the coming year. As students they should be loyal to their own body, and later loyal to the Pharmaceutical Society, of which they should all become members on qualifying.

MR. GLEESON said he had been interested in the student organisation from its inception, and MR. BRADY advised students to be "pharmaceutically minded" from the beginning. The Society always had the interests of the students at heart, because the student of today was the pharmacist of tomorrow. MR. COLEMAN said that the Council always welcomed criticism of the right type from the student body. The fact that the students of today were better informed than the students of some years ago he could only attribute to the existence of the Association.

MR. GILBERT, who was on a visit to Ireland from London, then told the students about pharmaceutical conditions in the different States of Australia. The treasurer's report, presented by MR. JOHN F. O'GRADY, was adopted unanimously. The president and officers of the Society then withdrew and the students entered upon a discussion of various problems. MR. M. B.

BROPHY said he would like to see "erratic" questions in examinations abolished and a prescribed course in pharmacy adopted. In practical pharmacy the absurdity of making pills by hand should be abolished. Was it right, he asked, that students who did three questions out of four in poison law should be failed? An urgent question was the wider recognition of the pharmacy qualification. MR. F. WALSH said doctors would have to stop ordering pills before the chemists stopped making them. MR. M. F. WALSH said in his view pills were most unhygienic things and should be thrown into the limbo of forgotten things. Students should be taught how to make them, but not examined in them. Reciprocity was a delicate and difficult question which should not be raised at the moment.

MR. O'BRIEN urged that they should have a magazine, or bulletin, issued to establish contact with country students and the chairman agreed. MR. HYLAN said he would like to see the Licenc examination split into two, and a correspondence course established for country students. The Society should have post-graduate courses to keep pharmacists up-to-date, and scholarships should be provided to enable students to travel abroad.

MR. T. O'KEEFE who, with Lieutenant S. Fox, attended on behalf of the Pharmaceutical Chemists' and Students' Club Foundation Committee, said they were trying to provide a club premises which would have reading, writing and study rooms for the use of the students.

## GAEILIC FOOTBALL

THE annual meeting of the College of Pharmacy (Dublin) Gaelic Football Club was held in Dublin recently. Mr. P. Cahill, M.P.S.I. (chairman), presiding. Lieutenant Seamus Fox presented the secretary's report, and Mr. T. O'Keefe (treasurer) reported a deficit of £6 14s. A sum of £80 had, however, been accumulated towards purchasing a playing field, the last of which had always been a handicap. M. B. McWey was unanimously re-elected Captain, and Mr. R. Nutty, Vice-captain. Miss Cora Gaffney presented medals to the members of the team who had won the Colleges cup. Subsequently the cup was handed over to Mr. Cahill to retain for the Club.

## PACKAGING IN THE UNITED STATES

THE specialist team on packaging which visited the United States at the beginning of the year (see *C. & D.*, February 18, p. 8) issued a report which is now published (price 2s. 6d.) by the Anglo-American Council on Productivity. Members of the team were unanimous that the best British packages are as good as any seen in America, though the average is lower.

### corrugated Board

The quality and strength of American corrugated board is commented upon. Loads of 190-220 lb. are not uncommonly packed in corrugated fibreboard cases, and a frame of light wood battens is added, up to 360 lb. is successfully packed. Pharmaceutical manufacturers use large quantities of corrugated cases for the dispatch of filled glass bottles, some of the larger bottles being packed individually in slide boxes before being cased. A polyethylene-lined solid fibre drum with an additional polyethylene bag was in use for ointments. Boxes are still preferred for many powders, especially perfumed dusting-powders, talcs, etc. Steel drums seen at one chemical plant are fitted with a polyethylene pourer that can be depressed into the drum when not in use (see also *C. & D.*, January 7, p. 27). Polyethylene (Polythene), a British discovery, is enjoying a wide use in America as a packaging material in the forms of film, tube, coatings and closures, as well as for moulded containers. The cost of polyethylene bottles in the United States is 2½-5 times that of glass: in Britain the price ratio is about 10-1. Labelling methods in use or being developed for labelling polyethylene bottles include heat sealing printed cellulose acetate labels; heat sealing printed fabric labels impregnated with polyethylene and printing direct onto the bottle with special inks by the silk-screen process. Rigid bottles made from polystyrene and cellulose aceto-butyrate were also seen.

In the pharmaceutical field, the use of neutral glass of high chemical durability is limited to containers for injections. For several months one manufacturer has even used ordinary good-quality soda-lime glass (type 3 glass) for penicillin products with complete success. The use of paper labels coated with a heat-sealing plastic is understood to be growing. For injection products the usual closure is the aluminium cap with rubber inner stopper. Powder

and tablet containers were seen closed by an effective flexible snap-on polyethylene cap. A push-fit internal seal in polyethylene was also in common use, though it appeared likely to become replaced by an outside close-fitting, flexible, snap-on cap. The usual type of metal screw cap with appropriate liner on a pulp backing was in use for powders. For liquids, the solid phenolic resin cap, with a wide range of liners on cork or paper backing, was most commonly used.

## MANCHESTER SPEECH DAY

SPEECH day and the distribution of prizes at the pharmacy department, Manchester University, were on October 18, with Mr. J. Lomax, J.P. (president, Manchester Pharmaceutical Association), in the chair.

PROFESSOR H. BRINDLE reported that the number of full-time students attending the department was an all-time record for the department. Except in the B.Sc. course, nearly all applicants had been accommodated. Ph.D. degrees had been awarded to Messrs. Sen Gupra, J. H. Carless, E. A. Rawlins, and J. G. Rigby (research students). The Allenburys' fellowship (value £250) had been awarded to Mr. J. H. Carless, the Wellcome Research fellowship (£300) to Miss Winifred Keepe; the Woolley and Kerfoot scholarships (£120 each) to Messrs. Morgan and Booth; and the Pharmaceutical Society's Charter Travelling scholarship to Mr. R. C. Baker, B.Sc., who had spent the year in the United States. The department had benefited by a legacy of £2,500 from the estate of the late Mr. A. L. Blain, M.P.S., Manchester, and the income from the sum would support another scholarship. Dr. P. F. R. Venables (principal, Royal Technical College, Salford) presented awards as follows:—Evans Medical Supplies, Ltd., and J. Woolley Sons & Co., Ltd., prizes: Mr. Fred Burgess; Hough, Hoseason & Co., Ltd., prize: Mr. Phillip Hill; E. Griffiths Hughes, Ltd., prize: Miss Beatrice E. Hyde; Allen & Hanburys, Ltd., prizes: Messrs. Alan Tallentire; J. Lomax, A. M. Grail, H. Steinman and A. Tallentire; T. Kerfoot & Co., Ltd., prize: Mr. J. B. Wilkinson; Manchester Pharmaceutical Association, prize: Mr. Fred Burgess; Pharmaceutical Society, prize: Mr. J. D. Allenby; Branch prizes: Messrs. Alan Clegg, C. W. Warless and Alan Tallentire.

## MISCELLANEOUS INQUIRIES

**Provision for a Widow.**—*V. M.*—If a will does not make "reasonable provision" for the testator's widow she can, within six months of probate, apply to the High Court for an order to provide maintenance for her out of the estate. This is the effect of the Inheritance (Family Provision) Act, 1938. It is impossible to say what would be regarded by the Court as "reasonable provision" since it must obviously depend on the amount of the testator's estate, etc. It would be wise to consult a solicitor.

**Morphine for Mountain Rescue Teams.**—*A. McB.*—The Secretary of State assented in 1949 to arrangements proposed by the British Mountaineering Council under which morphine might be more readily available for administration to injured climbers on the mountainside in remote districts. Under the proposals morphine to an amount not exceeding gr.  $\frac{1}{4}$  may be supplied by a nominated doctor to first-aid posts formally established by the Mountain Rescue Committee of the Council and packed in the standard mountain rescue equipment in the charge of the supervisor of the post. Replacements may be obtained by the supervisor through the nominated doctor—accounting to him for ampoules used or rendered unserviceable. The Council must supply to the Home Office a list of the first-aid posts and furnish a statement each year of cases where morphine has been used. The ampoules are accompanied by printed instructions for administration and by a tag, for attachment to the injured man, on which the quantity administered, together with the date and time, are to be recorded.

### Proportionate Veterinary Doses.—*G.P.T.*

Proportionate doses of sulphanilamide, sulphaguanidine and sulphadimidine for calves, cattle and pigs are as in the table at right.

**Smoking Rendered Unpleasant.**—*T.H.P.*—Silver nitrate used for discouraging smoking is usually used as a 0.25 per cent. solution with no other ingredient.

## TECHNICAL EDUCATION

THE National Advisory Council on Education for Industry and Commerce, set up in 1948 by the Minister of Education, published its first report on November 1. The Council considers that present methods of technological education are inadequate to meet the needs of either industry or student, and recommends that technological education (as distinct from technical training) should reach a standard equivalent to a first degree of a university, or accepted by major professional institutions as satisfying their educational requirements. Corporate membership. The Council commends the provision of more courses of degree standard at technical colleges. For this purpose the colleges should, it suggested, be assisted financially and given improved equipment, staffing and accommodation. To regulate the proposed courses a Royal College of Technology should be established. The proposed Royal College, which would be an independent, self-governing body, would exercise control to ensure that a high general standard was maintained.

### Organisations Consulted

In making its recommendations the Council took into consideration the views of Universities and University Colleges and of forty-six professional institutions, among which were the Pharmaceutical Society of Great Britain, the Royal Institute of Chemistry, and the Chemical Society. Copies of the report "The Future Development of Higher Technological Education" may be obtained from H.M. Stationery Office, price one shilling each.

	CALVES	CATTLE	PIGS
SULPHADIMIDINE ...	8 gm. per cwt. bodyweight initially, then 3 gm. per cwt. thrice daily.	75-100 gm. initially, then 50 gm. twice daily.	1 gm. per 10 lb. bodyweight initially, then one-third dose (i.e., 1 gm. per 30 lb.) thence daily.
SULPHAGUANIDINE ...	15 gm. on each of first two days, 10 gm. on third day, 5 gm. daily thereafter.	80-100 gm. daily for two days, then half this dose for two days, and one-quarter this dose thereafter.	1-1½ gm. per lb. bodyweight twice daily; reduce about half after three days.
SULPHANILAMIDE ...	1 gm. per 15 lb. bodyweight (gr. 1 per lb.) as a single daily dose; may be reduced by one-third to one-half after three or four days. For short course, gr. $\frac{1}{4}$ to gr. $\frac{1}{2}$ per lb. bodyweight on each of two successive days.	2-2.5 gm. per lb. bodyweight initially, then 1 gm. per 20 lb. as single daily dose.	

## CORRESPONDENCE

**Correspondents may adopt an assumed name for publication but must furnish their real name and address to the Editor**

### Apothecaries' Hall Dispensers

SIR.—In reply to Patrix (*C. & D.*, November 25, p. 595) as he reopens the old debate, I must put a true case of one apothecaries' Hall certificate dispenser to show that, as with pharmacists, they vary in capabilities. The dispenser gained his "Hall" certificate in 1935, and was appointed dispenser at a mental hospital in 1937. Came the war, and the mental patient was evacuated and turned into a E.M.S. hospital of 1,500 beds. The dispenser had to carry on and for upwards of two years acted in lieu of a chief pharmacist, with pharmacists actually working under him. When he appealed for some of the pharmacists to be appointed if he was told to carry on. The work meant knowledge and preparation of most any type of sterilised preparation, taining supplies, and acquaintance with all types of surgical equipment. I would respectfully point out that if Patrix can teach a girl 75 per cent. of his dispensing in twelve months, then the syllabus of the Pharmaceutical Society is not really necessary. When will the Pharmaceutical Society realise the value of some apothecaries' Hall dispensers and recognise them?

HALL CERT.

### Newspaper Caricatures

SIR.—It seems strange that, whenever publicity is given to pharmacists in the newspapers, it should almost invariably be to their detriment and usually based on a gross misconception of the truth. Recently samples have been painfully numerous. Two weeks ago faithful followers of the "Daily Worker" were told that the Government was paying out large sums of money to analyse medicine under the National Health Service and that the results showed that thousands of patients really were not getting what the doctor ordered. The paper's circumstantial details given by the organ of the communists must have been as impressive to the ignorant as they were ludicrous to informed readers. A mixture that "should have been composed of potassium citrate, potassium bicarbonate, tincture of hyoscyamus and chloroform water" was found, when analysed "to be potassium oxide, sodium, citric acid and bicarbonate". Chemists who read London's "Evening Standard"

were surprised a few days later to learn that their competitors were earning so much more than themselves from National Health Service dispensing that the average weekly income of contractors was £40 per week. The officials of organised pharmaceutical bodies are no doubt alert to counter these falsities but the trouble is that newspapers generally are reluctant to give publicity to their own errors. It behoves pharmacists to miss no opportunity of "educating" their customers to know the facts.

PINNORA.

### Service Dispensing

SIR.—My own experience of the Royal Air Force dispensing service may serve to balance Emteegee's arguments (*C. & D.*, November 25, p. 595). I started in an R.A.F. hospital dispensary as an A.C.2 (untrained), dusting, polishing, etc., under a Sergeant (W.A.A.F.) Apothecaries' Hall and an L.A.C. (R.A.F. dispenser). They, however, were not above asking my advice at the numerous problems that cropped up, nor were the Medical Officers who singled me out for attention. Fortunately, my sense of humour held out. After a process known in the R.A.F. as "Much Binding" and "Pressing on regardless," which means worrying extremely high ranking officers and never taking no for an answer, I was remustered as a Sergeant dispenser. I was then at one time in charge at a busy R.A.F. hospital and had all types to help me, both R.A.F.-trained and Apothecaries' Hall. They were good up to a point, but 50 per cent. of the work was above them. Such limitations reflected on the department and medical officers grew accustomed to not ordering the more difficult preparations, unless they could corner me. Both the commanding officer and myself were grateful when a pharmacist was posted to us. To take an analogy in the service, a trained nursing orderly is capable of doing most routine ward work under the supervision of the nursing sister (S.R.N.), and they are well trained for that job. Similarly, an R.A.F. Service-trained dispenser should be under the supervision of a pharmacist in order to provide a first-class dispensing service, for surely the efficiency of a hospital is as good as its weakest link, and no better.

M.P.S.

## TRADE REPORT

**Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.**

### 28 Essex Street, W.C.2, Nov. 29

SUPPLIES of a wide range of PHARMACEUTICAL and FINE CHEMICALS are short in face of a heavy demand. The export call for ASPIRIN and for SULPHONAMIDES is well sustained. TARTRATES are moving well at recently advanced prices. ATROFINE METHYL BROMIDE and METHYL NITRATE, and also HOMATROPINE ALKALOID and SALTS are dearer. Other price movements have included a rise of 12s. per cwt. in MAGNESIUM CARBONATE (HEAVY, B.P.).

The CRUDE DRUGS markets have been quiet in the absence of supplies of many articles. Stocks of Japanese AGAR on the spot have been depleted recently and arrangements (see p. 603) have been made for the importation of further supplies under individual licence. Cape ALOES is still difficult to obtain and higher prices are asked for the small supplies available on the spot. Sumatra BENZOIN is firm and stocks are low; there are no offers from the origin. CASCARA SAGRADA is not attracting much interest and has eased slightly, although any increase in spot demand is expected to produce higher prices. ERGOR is a very firm market and holders of spot supplies are asking 5s. or 6s. more than a week ago. GUAIACUM RESIN is slightly cheaper on the spot. A good inquiry is reported for high-testing Brazilian JALAP ROOT and for KOLA NUTS. Further shipment offers are being made of Nicaraguan and Colombian IPECACUANHA. Chinese rough-round RHUBARB is a little weaker, with sound root, having a four-fifths pinky fracture, offered at about 6s. 6d. per lb., duty paid. The spot markets for GUMS are steady; business has been done in new-crop GUM ACACIA at 102s. per cwt., c.i.f., for January-March shipment. WAXES continue scarce and firm.

ESSENTIAL OILS generally are firm and business has been confined to small lots. Supplies of BOIS DE ROSE and ORANGE oils are in short supply on the spot. It is reported that production of bois de rose oil in Brazil has been cut down. It is also difficult to find spot supplies of BERGAMOT and there are still no offers from Italy. LAVENDER and LAVANDIN are firm markets; it appears that very little of these oils is now available in France.

### U.S. Drug and Chemical Report

New York, November 24

THE markets for PHARMACEUTICAL and FINE CHEMICALS continue active, with a good demand for ANTIBIOTICS and synthetic VITAMINS. Prices of THYMOL are maintained at previous levels and an increase in demand is expected. SALICYLATES are scarce and firm. CITRIC ACID is moving

well, and there are only limited offerings of spot material. BENZOIC ACID and SODIUM BENZOATE have been reduced in price, a result of recent advances in shipping prices of MERCURY from Spain, sales metal on the spot are being made at \$1 per flask or more. The MENTHOL market is firmer. Spot quotations are now in the region of \$11.60 to \$12 per lb. The no export duty of 7½ per cent. on shipment of menthol from China are expected to cause a rise of 70 cents per lb. at the very least. A generally firmer trend is apparent in CRUDE DRUGS. JALAP ROOT, BENZOIN, PSYLLIUM SEED and SENNA LEAVES are all showing considerable strength. The recent sharp advances in TOLU BALSAW has failed to effect the tight supply position. COPAIBA BALSAW is in similar position, with current spot price ranging from \$1.10 to \$1.25 per lb., again about 60 cents per lb. a month ago. Fair quantities of GUM ACACIA are changing hands at high prices. HYDRASTIS and SENEGA are in short supply. CARNAUWAX continues firm and there are few offerings of spot supplies. Demand for CAMPHOR powder and tablets is reported brisk, despite a recent increase of 5 cents per lb. Trade in ESSENTIAL OILS is moderate and good, and the market generally is firm. BOIS DE ROSE has been advanced in price and current quotations are from \$4.25 to \$4.40 per lb.

### Pharmaceutical Chemicals

CHLORAL HYDRATE.—Current rates per lb. for the home trade are: 1-cwt. 10s. ; 56-lb., 4s. 2d. ; 28-lb., 4s. 4d.

CHLORAMINE.—B.P. grade is from 2s. 5d. to 2s. 9d. per lb. and 98 per cent. technical is 2s. 2½d. to 2s. 5d. per lb., according to quantity.

CHLOROCRESOL.—Pharmaceutical quality is quoted at 4s. per lb. in 1-cwt. drums.

CHOLESTEROL.—In 1-kilo lots, price is about 126s. per kilo; 75 per cent. 98s. and 50 per cent., 80s. 3d. per kilo.

CHRYSAROBIN.—Quotations are from 35s. to 35s. 9d. per lb.

CRESOL.—Price of B.P. quality from distillers is 4s. 6d. per gall., delivered.

EMETINE.—HYDROCHLORIDE in 32-oz. lots is 240s. per oz.; 16-oz., 242s. 6d. ; 4-oz. 245s. ; 1-oz., 252s. The BISMUTH IODIDE in 32-oz. lots is 124s. 6d. per oz.; 16-oz. 126s. ; 4-oz., 127s. 6d. ; 1-oz., 129s. PEIODE is quoted at 203s. 6d. per oz. in 1 oz. lots; under 16-oz., 208s. 6d. per oz.

HEXAMINE.—B.P. is offered at from 1s. 9d. to 2s. per lb., as to quantity.

HEXOBARBITONE.—Quotations are in the region of 77s. per lb. for small quantities.

**HOMATROPOINE.**—Higher prices from November 28. For small quantities ALKAID is from 97s. 6d. to 102s. 6d. per oz., and HYDROCHLORIDE, HYDROBROMIDE and ULPHATE, 75s. to 80s. per oz.

**HYDROQUINONE.**—Bulk rates are as follows: 10 cwt., 9s. 6d.; 5 cwt., 9s. 9d.; cwt., 10s.; 28 lb., 11s.; 14 lb., 11s. 3d.; lb., 11s. 6d. per lb. Carriage paid in U.K.

**HYPOPHOSPHITES.**—Makers' rates per lb. or 7-lb. lots are: AMMONIUM, 9s. 3d.; ARIUM, 6s. 3d.; CALCIUM, 4s. 11d.; IRON, s. 4d.; MAGNESIUM, 7s. 9d.; MANGANESE, s. 5d.; POTASSIUM, 6s. 1d.; SODIUM, s. 7d. **HYPOPHOSPHOROUS ACID.**—In winchesters prices are around 6s. 2d. per lb.; in carboys, 5s. 10d. per lb. asked.

**ISOPROPYL ALCOHOL.**—Makers quote 5s. 3d. per gall. for small lots.

**KAOLIN.**—In 1-cwt. bags, LIGHT is quoted at 56s. per cwt., and HEAVY at about 2s. 6d. per cwt.

**LACTATES.**—Current quotations are: CALCIUM, 2s. 2½d. to 2s. 6½d.; CALCIUM ODIUM, 3s. 5d. to 3s. 9d. per lb.; LACTIC CID, B.P., 3s. 3d. per lb. in carboys, nd 3s. 4½d. to 3s. 10d. in winchesters.

**LACTOSE.**—English, 5-ton lots in 2-cwt. non-returnable kegs, is £130 per ton; 10-ton. lots, £133 10s. per ton; less than 0-cwt., £135 per ton. In 1-cwt. non-removable kegs prices are 1s. more, and in 1-cwt. paper-lined bags, 5s. per cwt. less than the above rates.

**MAGNESIUM CARBONATE.**—HEAVY, B.P., as risen by 12s. per cwt. 1-cwt. lots in 8-lb. packages are now 143s. per cwt.; 1-cwt. lots, 134s.; 10-cwt. lots, 133s. per wt.

**MAGNESIUM TRISILICATE (B.P.).**—Prices per lb.) in the home market are unchanged. Not less than 1-cwt., 3s. 4d.; 1-cwt., 3s. 2d., in 28-lb. containers.

**OXALIC ACID.**—1-ton lots in casks are quoted at £134 10s. per ton; 10-cwt. £141 10s. per ton; 5-cwt. and less, £153 10s. In kegs prices are 20s. per ton more.

**PANCREATIN.**—1-cwt. lots of B.P. are quoted at 9s. per lb., and 28-lb. at 10s. U.S.P., 1-cwt. lots, 11s. 6d. per lb.; 28-lb., 2s. 6d.

**PEPSIN.**—In 28-lb. lots, B.P. is 20s. per b. and U.S.P. is 22s. per lb.

**PHENAZONE.**—Prices quoted for British-made and imported material range from 8s. to 20s. per lb.

**PHENYLACETIC ACID.**—1-cwt. lots are now quoted at 5s. per lb.; smalls, up to 5s. 9d. per lb.

**PILOCARPINE.**—Supplies of HYDROCHLORIDE and NITRATE are quoted at 30s. 6d. per oz. in 25-oz. lots.

**POTASSIUM BROMATE.**—Prices range from 4s. 6d. to 5s. 6d. per lb.

## Crude Drugs

**AGAR.**—Kobé No. 1 on the spot is at from 9s. 6d. to 9s. 9d. per lb., duty paid.

**ALOES.**—No offers reported of Cape from origin; spot supplies are nominally 185s. per cwt. Curaçao is 225s. per cwt., spot.

**ARECA NUTS.**—Spot quotations are from 37s. 6d. to 50s. per cwt., as to quality.

**ARNICA FLOWERS.**—Spot quotations are from 1s. 3d. to 1s. 4d. per lb., duty paid.

**BALSAMS.**—*Canada*, 23s. per lb., on the spot; for shipment, 21s. per lb., c.i.f., nominal. *Copaiba*, B.P., soluble, on spot is nominally 9s. 6d. per lb., duty paid. San Salvador *Peru* is nominal at 9s. in bond. *Tolu* is quoted at 21s. to 22s. per lb., spot.

**BELLADONNA.**—Irish herb is offered at from 4s. 6d. to 5s. per lb. on the spot. Low-testing root is available at 4s. 6d. English leaf is 3s. 9d. per lb.

**BENZOIN.**—Sumatra block on the spot is nominally £25 per cwt. for the No. 1 quality; forward, £22 10s., nominal, c.i.f.

**BISMUTH.**—Metal is 17s. per lb. in minimum 5-cwt. lots.

**BUCHU.**—Steady. Short round leaves on the spot are 2s. 2d. per lb.

**CAMPHOR.**—Chinese powder, B.P., is from 4s. 6d. per lb.; and B.B., 4s. 3d.; ½-oz. tablets, 5s. 6d.; 2½-lb. slabs, 5s.; all duty paid, in London.

**CANTHARIDES.**—Chinese on the spot is 5s. 6d. per lb.; for November-December shipment from Hong Kong, 4s. 11d., c.i.f.

**CASCARA SAGRADA.**—Quiet. 1950 peel is offered at from 345s. to 350s. per cwt., duty paid (in bond, 310s. per cwt.).

**CLOVES.**—Zanzibar on spot, sellers at 2s. 2d. per lb.; November-December, 1s. 10½d., c.i.f. Madagascar, 2s. per lb., in bond; December-January, 1s. 8d., c.i.f.

**COCHINEAL.**—Supplies of black are offered at 5s. 6d., and of silver grey at 5s. per lb., spot London.

**COLCHICUM.**—Corms on spot are quoted at from 2s. 3d. per lb., as to test: seeds, from 7s. 6d. to 9s. per lb., spot, duty paid.

**ERGOT.**—Firm. No offers from Portugal. Spot quotations are in the region of 56s. per lb. but there is little interest in this market.

**FRANGULA BARK.**—Quotations are in the region of 85s. per cwt., duty paid, spot.

**GALLS.**—Chinese, for November-December shipment from Hong Kong, are quoted at upwards of 144s. per cwt., c.i.f.

**GAMBOGE.**—Siam pipe is offered at £40 per cwt., duty paid; powder is quoted at 11s. 6d. per lb., spot London.

**GENTIAN.**—Spot quotations are from 97s. 6d. to 100s. per cwt.

**GINGER.**—African is steady at 325s. per cwt., spot. Jamaican No. 1 is offering at 500s. per cwt., spot,

**GUAJACUM.**—Spot quotations for resin are from 2s. 9d. to 3s. 3d. per lb.

**HENBANE.**—Egyptian (*H. muticus*), f.a.q. is offering from origin at from 85s. to 86s. per cwt., c.i.f. *Niger* (0.4 per cent. alkaloids), 4s. 3d. per lb., spot.

**HONEY.**—Prices of dark manufacturing grades are as follows:—1-cwt., 83s.; 5-cwt., 81s.; 10-cwt., 79s.; 1-ton, 77s. per cwt., carriage paid in U.K., packed in 60-lb. drums. Refined honey: In 56-lb. tins, 100s.; 28-lb., 115s.; cases of four 7-lb., 130s. per cwt., carriage paid. In good demand.

**IPECACUANHA.**—Prices are unchanged. Colombian, 42s. 6d. per lb., spot; for December-January shipment, 39s. 6d. c.i.f. Nicaraguan, 44s. 6d. to 45s. spot; 40s., c.i.f. Matto Grosso, 44s., spot; Minas, 44s., spot.

**IRISH MOSS.**—No. 1 carragheen on the spot is quoted at 100s. per cwt.

**JALAP.**—Brazilian root (13.9 per cent. resin) on the spot is offering at 2s. per lb.; Mexican, from 3s. 6d. to 4s. per lb., landed terms.

**KARAYA.**—No. 1 on the spot is quoted at 400s., and No. 2, 325s. per cwt.

**KINO.**—Indian on the spot is quoted at 6s. 9d. per lb.

**LANOLIN.**—B.P. anhydrous is £120 per ton; hydrous, £90. Superfine anhydrous is quoted at £126 per ton. In short supply.

**LIQUORICE.**—Anatolian natural root on the spot is quoted at 47s. per cwt., and Syrian at 42s. 6d. in Liverpool. British block, 150s. to 195s. per cwt., as to grade. Turkish block juice is quoted at from 150s. to 220s., duty paid, according to holder. Turkish stick is from 285s., duty paid. Italian stick is from 240s. to 475s. per cwt., duty paid.

**Lycopodium.**—Triple-sifted material, on the spot, is quoted at from 11s. per lb., duty paid.

**MACE.**—West Indian pale blade is nominal at 9s. per lb.; for shipment, 9s., c.i.f.; second-hands, 8s. 6d., c.i.f.

**MALT EXTRACT.**—B.P. quality is quoted at 86s. per cwt. in 1-cwt. or 56-lb. returnable drums; with COD-LIVER OIL (15 per cent. v/v) the price is 99s. 6d. per cwt.; carriage paid.

**MASTIC.**—No. 1 tears are quoted at from 12s. 6d. per lb., spot.

**MENTHOL.**—Chinese on the spot is offering at from 105s. per lb., duty paid (in bond, 100s.). Supplies now landing are quoted at 92s. 6d. per lb. in bond; afloat, 87s. 6d., c.i.f. November-December shipment from Hong Kong is quoted at 85s. c.i.f., and from North China at 81s. 6d. c.i.f.

**MERCURY.**—Spot quotations are from £31 to £31 15s. per flask, ex warehouse; forward, nominal.

**MYRRH.**—Aden sorts, quoted at from £10 10s. to £12 per cwt.; siftings, £6 10s. to £7; both spot London.

**NUTMEGS.**—West Indian 80's, 4s. per lb.; unassorted, 3s. 6d., and worn 2s. 10d., spot London. East Indian 80's for shipment, 5s. 7d., c.i.f.

**ORANGE PEEL.**—Spanish bitter quarters are offered at 1s. 9d. and sweet ribbon 1s. per lb., both duty paid, ex wharf London. West Indian bitter quarters in London are 1s. 4½d. per lb.

**PIMENTO.**—Quiet. Spot quotations from 1s. 8½d. per lb.

**QUASSIA.**—Quiet. Chips on spot 32s. per cwt.; for shipment, 29s. 6d., c.i.f.

**RHUBARB.**—Chinese rough round slightly easier with four-fifths pinky fracture material available at 6s. 6d. per lb. duty paid (6s. in bond). Double Deer 8s. 6d. per lb., duty paid (7s. 9d. in bond).

**SARSAPARILLA.**—Firm. Jamaican native on spot is 2s. 6d. per lb.; for shipment, 2s. 5d., c.i.f.

**SEEDS.**—Turkish ANISE on the spot 147s. 6d. per cwt. in bond, with 157s. per cwt., duty paid, in London; Cyprus 175s. per cwt., spot Liverpool. CARAWAY Market dearer. Dutch is now quoted 195s. per cwt., duty paid, in London.

**CELERY.**—Demand eased off last week. 1s. 10½d. per lb. is quoted, spot London.

**CORIANDER.**—Market firm. Morocco on spot in London is 165s. per cwt., in bond and 175s. per cwt., duty paid. Business is reported at 150s. per cwt., c.i.f. London for November-December shipment.

**CUMIN.**—Market continues firm. Spot Indian held for 200s. per cwt., and Cyprus, 20 per cwt. Indian for November-December shipment is 185s. per cwt. Cyprus is 19 per cwt., and Morocco, 250s. per cwt., c.i.f.

**DILL.**—Market quiet. Indian is quoted 77s. 6d. to 80s. per cwt., spot London.

**FENNEL.**—Indian is scarce on spot at 10 per cwt. FENUGREEK.—Spot is unchanged. Morocco is 50s. per cwt., duty paid, store London or Liverpool.

**SENEGA.**—Quiet. Spot quotations are 18s. 6d. per lb.; for shipment, 18s., c.i.f.

**SENNA.**—Firm. Tinnevelly leaves, f.a. No. 1, 1s. 4d.; No. 2, 1s. 2½d.; No. 1s. 1½d., spot, nominal. Tinnevelly hairy picked pods are from 2s. to 2s. 3d., sp. Alexandrian pods, 1s. 6d. per lb. nominal; Alexandrian broken leaves are 1 minally at from 9½d. to 10½d. per lb. a siftings at from 8½d. to 9½d.

**SHELLAC.**—F.O.T.N., pure, is 330s. F.O. Standard No. 1, 340s.; and fine orange, from 360s. to 420s. per cwt., spot London.

**STYRAX.**—Spot quotations for crude from 7s. to 7s. 6d. per lb., duty paid.

**TRAGACANTH.**—White ribbon, selected, quoted at £150 per cwt.; No. 1, £145; No. 2, £127; No. 3, £110, spot.

## Essential and Expressed Oils

**ALMOND.**—Expressed sweet oil (B.P.) on the spot is from 5s. to 5s. 9d. per lb.; Bitter essential oil, s.a.p., on the spot, is from 24s. to 55s. per lb., as to grade.

**ANISE.**—Quiet. Spot offers are from 9s. 4½d. to 9s. 9d. per lb.; December-January shipment, 9s. 3d., c.i.f.

**BAY.**—West Indian is firm at from 12s. to 14s. 6d. per lb., as to quality.

**BOIS DE ROSE.**—Brazilian on the spot is from 32s. 9d. per lb. upwards; forward, 32s. 6d., c.i.f.

**CAMPHOR.**—White oil on the spot is quoted at 2s. 6d. per lb., duty paid (for shipment, 1s. 10½d., c.i.f.); brown oil, from 3s. 6d. per lb., duty paid (for shipment, 1s. 10½d., c.i.f.).

**CANANGA.**—Firm. Java is offering at upwards from 44s. to 45s. per lb., spot.

**CARAWAY.**—English-distilled is quoted at from 40s.; imported oils are offered at from 32s. 6d. to 35s. per lb., spot.

**CARDAMOMS.**—English-distilled is quoted at from 450s. per lb.; imported, from 378s. to 400s. duty paid.

**CASSIA.**—Supplies on the spot would be worth from 26s. per lb.; November-December shipment, 23s., c.i.f.

**CEDARWOOD.**—East African is quoted at 8s. 6d. to 6s. per lb., spot London; Atlas, 8s. 3d. per lb., spot.

**CINNAMON.**—B.P. oil on the spot is quoted at from 52s. 6d. to 100s. per lb. English bark oil is offered at 22s. 6d. per oz. Seychelles leaf oil is from 8s. 6d. to 9s. 6d. per lb., spot; for shipment, 9s., c.i.f. Ceylon leaf (B.P.), 10s. per lb., spot.

**CITRONELLA.**—Firm. Ceylon is from 1s. 3d. to 11s. 6d. per lb. on the spot; November-December, 10s. 8d., c.i.f. Java or shipment, 17s. 6d., c.i.f.

**DILL.**—English-distilled oil is quoted at about 65s. per lb. for B.P. quality. Imported oils are offered at from 45s. to 5s. 3d. per lb., as to quality.

**EUCALYPTUS.**—Australian 70-75 per cent. (B.P.), is nominally 6s. 9d. to 7s. per lb., spot; forward, 6s. 2d., c.i.f. 80-85 per cent., 7s. 3d. to 7s. 6d. per lb., spot.

**GINGER.**—English-distilled is from 170s. to 200s. per lb., as to grade and seller; imported oils, 175s. to 185s. per lb., spot.

**GUAIACWOOD.**—Spot quotations are from 7s. 6d. to 19s. per lb., duty paid.

**JUNIPER BERRY.**—Imported oils are quoted at from 18s. to 20s. per lb., duty paid; English-distilled, first quality, is offered at from 75s. to 80s. per lb.; B.P.C. oil is 22s.

**LAVENDER.**—French (38-40 per cent.inalol) is offering for shipment from origin at 50s. per lb., c.i.f.; second hand sellers are quoting 48s., c.i.f. Spanish spike is from 16s. 6d. per lb. on the spot; forward, 6s. 6d., f.o.b.

**OLIVE.**—Little available on the spot and 26s. 3d. per gall. is asked, ex warehouse. New-crop French virgin oil in 200-kilo drums is offering at about 22s. 2d. per gall., c.i.f. London, and pharmaceutical quality at 21s. 5d., c.i.f. London. Tunisian virgin oil is quoted at 21s. 10d., c.i.f. London.

**PEPPERMINT.**—Chinese in drums, 33s. to 35s. per lb., spot; afloat, 29s. 6d. Brazilian is 35s. per lb., spot. *Piperita* is firmly maintained at from 60s. to 62s. per lb., spot.

**PIMENTO BERRY.**—English-distilled oil, from 80s. per lb.; No. 2, 27s. per lb., spot. Foreign, 30s. to 34s. per lb., spot.

**ROSEMARY.**—Steady. Spanish is offering at from 7s. 3d. to 8s. per lb., spot.

**SASSAFRAS.**—Brazilian natural is quoted at from 6s. 3d. to 6s. 6d. per lb., duty paid, spot London.

**SPEARMINT.**—Scarce and firm. Spot supplies are offered at 48s. per lb.

**THYME.**—Red oil (40-42 per cent. phenols), 10s. 6d. to 12s. 6d. per lb.; white oil, 17s. to 18s. 6d. per lb., spot.

## Methylated Spirits

METHYLATORS' rates per gall., for Great Britain from October 2 are as follows:—

**Industrial methylated spirit:** Strength 61 o.p., 500 gall. and over, in one delivery, 3s. 10½d.; 100 gall. and under 500 gall., 4s. 0½d.; 30 gall. and under 100 gall., 4s. 2½d.; 10 gall. and under 30 gall., 4s. 4½d.; 5 gall. and under 10 gall., 4s. 7½d. Strength 64 o.p., ½d. per gall.; 66 o.p. (B.P.), 1d.; 68 o.p., 1½d.; and 7½ o.p., 4½d. more than the above rates. Tank wagon delivery: One halfpenny per gall. off list price—minimum 500 gall. For industrial methylated spirit of standard *toilet quality* prices are 2d. per gall. above foregoing prices.

**Pyridinised industrial methylated spirit:** Strength 61 o.p., 500 gall. and over, in one delivery, 4s. 0¼d.; 100 gall. and under 500 gall., 4s. 2½d.; 30 gall. and under 100 gall., 4s. 4½d.; 10 gall. and under 30 gall., 4s. 6½d.; 5 gall. and under 10 gall., 4s. 9½d. Strength 64 o.p., ½d. per gall. more than foregoing rates.

**Mineralised methylated spirits:** Strength 61 o.p., in one delivery, 100 gall. and under 500 gall., 4s. 4½d.; 30 gall. and under 100 gall., 4s. 6½d.; 10 gall. and under 30 gall., 4s. 8½d.; 5 gall. and under 10 gall., 4s. 11½d. Strength 64 o.p., ½d. per gall. more than foregoing rates.

**Methylated resin finish** is 3d. per gall. over, and **methylated shellac finish**, 1s. per gall. over the prices for pyridinised methylated spirit.

**Terms:** Delivered free and carriage paid on returned empties; cash one month, less 2½ per cent.; packages charged, credited in full on return.

## COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

### Monday, December 4

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN, 17 Bloomsbury Square, London, W.C.1, at 7.30 p.m. Dr. J. Carmichael (a member of the British Veterinary Codex Committee and chairman of its action and uses subcommittee) on "Veterinary Therapeutics."

SOUTHGATE AND WOOD GREEN DIVISION, NORTH LONDON PHARMACEUTICAL ASSOCIATION, Windsor Café, 398 Green Lanes, London, N.13, at 7.30 p.m. Mr. Dennis Sadler (Central Motor Institute) on "My Job."

WEST KENT BRANCH, PHARMACEUTICAL SOCIETY, Central Library Hall, Beckenham, Kent, at 8 p.m. Dr. H. E. Archer on "The Detection of Poisons."

### Tuesday, December 5

BIRMINGHAM BRANCH, PHARMACEUTICAL SOCIETY, Grand Hotel, Birmingham, at 8 p.m. Mr. W. H. Brent, B.Sc., M.I.E.E. (regional engineer, Post Office telephones) on "Television."

NORWICH BRANCH, PHARMACEUTICAL SOCIETY, Y.M.C.A., St. Giles Street, Norwich, at 7.45 p.m. Mr. S. J. Hopkins, Ph.C. (chief pharmacist, Addenbrooke's Hospital, Cambridge) on "Recent Advances in Medicine."

### Wednesday, December 6

GLASGOW BRANCH, PHARMACEUTICAL SOCIETY, Royal Technical College, Glasgow, at 7.30 p.m. Mr. T. D. Mackinnon on "A Pharmacist in the Himalayas" (illustrated).

JUNIOR BRANCH, MANCHESTER PHARMACEUTICAL ASSOCIATION, Council Chamber, Houldsworth Hall, Manchester, at 7.30 p.m. Whist drive.

LEEDS BRANCH, NATIONAL PHARMACEUTICAL UNION, Mansion Hotel, Roundhay, Leeds, at 8 p.m. Annual dance.

PORTSMOUTH BRANCH, PHARMACEUTICAL SOCIETY, Foresters Hall, Fratton Road, Portsmouth, at 7.30 p.m. Whist drive.

### Thursday, December 7

CHESTER BRANCH, PHARMACEUTICAL SOCIETY, Blos-soms Hotel, Chester, at 8 p.m. Mr. H. Robinson, M.A., on "Colour Photography" (Illustrated).

DURHAM COUNTY BRANCH, PHARMACEUTICAL SOCIETY, Pattison's Dunelm Hotel, Old Elvet, Durham City, at 7.30 p.m. Mr. F. C. Wilson, M.P.S. (vice-president of the Pharmaceutical Society) on "Current Pharmaceutical Topics."

HARROGATE BRANCH, PHARMACEUTICAL SOCIETY, Fuller's Café, Harrogate, at 7.30 p.m. Illustrated address by Mr. C. Beaven (Parke, Davis & Co.) on "The Riddle of Allergy."

WIMBLEDON PHARMACISTS' ASSOCIATION and BRANCH, Wimbledon Town Hall, at 7.45 p.m. Miss D. Murgatroyd (superintendent, South-eastern Pricing Bureau) on "Pricing Problems."

### Friday, December 8

CHESTERFIELD BRANCH, PHARMACEUTICAL SOCIETY, and CHESTERFIELD DIVISION, BRITISH MEDICAL ASSOCIATION, Boardroom, Royal Hospital, Chesterfield, at 8.30 p.m. Mr. C. Carter (superintendent, North-east Midland Prescription Bureau) on "Joint Problems of Dispensing."

PORTSMOUTH BRANCH, PHARMACEUTICAL SOCIETY Solent Hotel, South Parade, Southsea, at 7 p.m. Address by Dr. T. Beaton, O.B.E. (medical superintendent, St. James' Hospital, Portsmouth).

FINE CHEMICALS GROUP, SOCIETY OF CHEMICAL INDUSTRY, Chemistry Lecture Theatre, King's College, Strand, London, W.C.2. Dr. W. Arrol (Atomic Energy Research Establishment Harwell), on "The Preparation of Radioactive Materials in a High Degree of Purity."

SOUTH-EASTERN [LONDON] ASSOCIATIONS BRANCH are holding their annual dinner and dance on January 18, 1952 [corrected note].

THE SECOND NATIONAL PACKAGING EXHIBITION being held at Olympia, from January 30 to February 9, 1951.

PHOTOGRAPHY LECTURES FOR JUVENILES.—Three lectures designed for young people aged 12-17 years are to be given by Fellows of the Royal Photographic Society at the Society's headquarters, Princes Gate, London, S.W.7, at 3 p.m. on December 28 and 29 and January 1, 1951. Admission is free but by ticket. Early application for tickets should be made to the Society's secretary.

## TRADE MARKS

(From "The Trade Marks Journal," November 15)

For photographic chemicals and sensitised materials (1).—"OPALURE"; by Kodak, Ltd., London, W.C.2; 690,469.

For non-medicated toilet preparations for hair (3).—"LUSTRSHEEN" (in distinctive lettering); "LUSTRCRIN"; by Henry Serventi, Ltd., London, W.1; B680,096-97.

For non-medicated toilet preparations (3).—"MISTRESS LUCKY," "MISS LUCKY," "MISS LUCK"; by Lucky Strike Perfumeries, Ltd., London, W.1; B685,946-48.—"WHIP-TEXT"; Columbi Products Co., Ltd., London, W.690,027.

For all goods (3).—"ZAL"; by Newton, Chambers & Co., Ltd., Sheffield; 688,621.

For soaps (3).—"SAVONITES"; by McLelland and Cockburn, Ltd., Glasgow, 687,085.—"NAPAX"; by Fitchett's, Ltd., Birmingham; 689,0 "CHERUB"; by British Glues & Chemicals, Ltd, Welwyn Garden City; 689,197.—"NEWCOL"; by Newton, Chambers & Co., Ltd., Sheffield; 689,2

For sun-tanning preparations for the legs (3).—"NYLOTAN"; by George Edward Metcalfe, M. Hull; B689,236.

For cosmetic preparations (not being toilet preparations) (3).—"CALADRYL"; by Parke, Davis Co., Detroit; 690,079.

For detergents (3).—"LORCLEAN"; by the L.Oil Refining Co., Ltd., London, S.E.6. 690,068.—"KALOL"; by J. C. & J. Field, Ltd., London, S.W.19; B690,100.

For anaesthetics (5).—"MELCAINE"; by Woelrm, Eschwege; 684,889.

For pharmaceutical preparations (5).—"Exsol"; by Potter & Clarke, Ltd., London, E.6. 687,134.—"PROMACETIN," "SURITAL"; by Parke, Davis & Co., Detroit; 689,684-85.—"SAFFELIN"; by Glaxo Laboratories, Ltd., Greenford; 690,6 "SEDALGESIC"; by Clinical Products, Ltd., Richmond; 690,612.—"THENFADIL"; by Bayer Products Ltd., London, W.C.2; 690,644.—"TONSUBIS"; by Laboratoires J. Berthier, Grenoble; 690,786.

Every day the 'Nervone' message goes  
out to customers in your district

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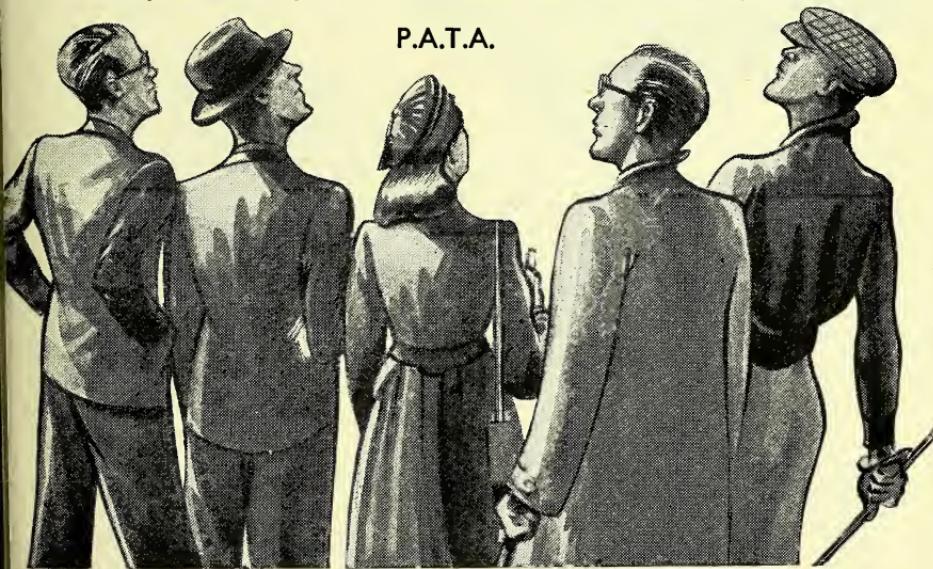
## BUILDS UP NERVE POWER

Consistent advertising in the national press has created a lively demand for 'Nervone,' the new Bio-Chemic tablet. An extensive poster and screen campaign is now planned to increase further the sale of this fine preparation. More and more of your customers will be asking for 'Nervone' and experience so far has shown that repeat sales and recommendations flow freely from initial orders. It will pay you to stock—and show—'Nervone.' Remember each sale means a PROFIT OF ONE SHILLING AND SIXPENCE! Order now through your wholesaler.

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NERVONE, CECIL HOUSE, HOLBORN VIADUCT, LONDON, E.C.1

**Abridged Particulars—for information only.**

*Permission has been granted by the Council of The Stock Exchange, London, to deal in and quotation for the whole of the issued Preference and Ordinary Shares of the Company.*

# LONDON RUBBER COMPANY LIMITED

*(Incorporated under the Companies Act, 1948)*

<i>Authorised:</i>	<b>SHARE CAPITAL</b>	<i>Issued and to be Issued:</i>
<b>£200,000</b>	in 200,000 6 per cent. Redeemable Cumulative Preference Shares of £1 each .....	<b>£200,000</b>
<b>£300,000</b>	in 3,000,000 Ordinary Shares of 2s. each .....	<b>£200,000</b>
<b>£500,000</b>		<b>£400,000</b>

1. The Company, whose business was founded in 1915, owns the whole of the issued capitals of Elarco Limited, Latex Industries Limited, Essex Rubber Industries Limited and The London Rubber Company (A.G.) Limited. Through the operating companies the group manufactures and distributes a wide range of general rubber products including surgical and household merchandise, advertising balloons and toy shapes, golf ball centres and fountain pen fillers and sacs.

These products are supplied to some 18,000 wholesale and retail customers in the United Kingdom and are exported to many parts of the world including North and South America.

2. The combined profits of the group, after all charges, but before taxation, for the periods ended 31st December, were as follows:

	£		£
1940	57,921	1945	139,627
1941	65,620	1946	213,039
1942	120,968	1947	232,893
1943	146,802	1948	177,206
1944	127,582	1949	191,980

Six months ended 30th June, 1950, £94,090.

3. The net tangible assets of the group, as shown in the Auditors' Report, together with the new Working Capital provided by the present issue of Preference Shares, amount to £447,776, exclusive of good-will, which covers the nominal amount of the Preference Capital, together with maximum premiums payable on a return of capital, more than twice.

The amount required to pay the dividend on the whole of the Preference Share Capital, together with Profits Tax at 30 per cent. thereon (£15,600) is covered over 9 times by the average profits of the last ten years, and over 12 times by those of the last five years.

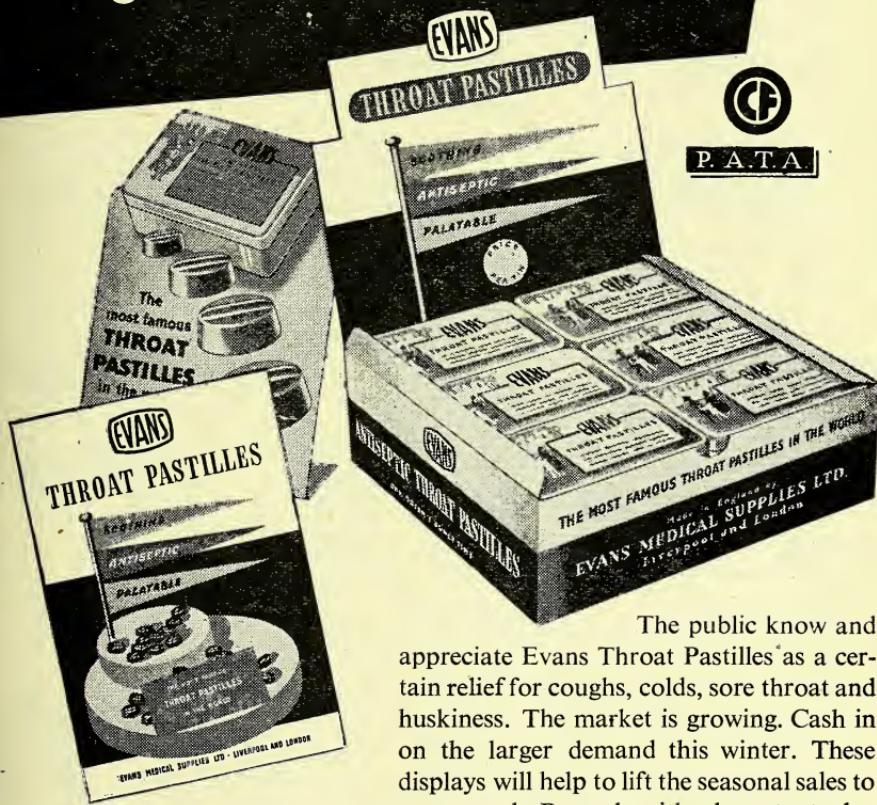
4. Trade is being well maintained and the Directors have every confidence in the future of the business. It is their intention to recommend a dividend in respect of the period from 21st November, 1950, to December, 1951, at the rate of 32½ per cent. per annum, which, together with the Profits Tax at 30 per cent. thereon, would require £84,500 in a full year. It is proposed to pay an interim dividend in August, 1951.

*A copy of the advertisement giving the particulars required to be advertised in connection with the application made to the Council of The Stock Exchange, London, for permission to deal in and quotation for the whole of the issued Preference and Ordinary Shares may be had upon application to*

**The Federated Trust and Finance Corporation Limited,**

**20, Copthall Avenue, London, E.C.2**

# Sell more of the 'Most famous Throat Pastilles in the world' through these sales aids



The public know and appreciate Evans Throat Pastilles as a certain relief for coughs, colds, sore throat and huskiness. The market is growing. Cash in on the larger demand this winter. These displays will help to lift the seasonal sales to new records. Be ready with adequate stocks. Display matter as illustrated supplied free.

## WINTER BONUS OFFER

From September onwards six free tins of Evans Throat Pastilles will be supplied with each order of six dozen tins.

Wholesale 11/- per doz. (plus P.T.)  
Retail 1/6 per tin (Incl. P.T.)

**EVANS**  
**THROAT PASTILLES**

**EVANS MEDICAL SUPPLIES LTD.**

LIVERPOOL AND LONDON

# 'BEPLEX'

C A P S U L E S

## *Advance announcement of price reduction*

As from 1st January, 1951, the price of 'BEPLEX' Capsules will be reduced from 8/6 to 6/- retail price.

*A corresponding reduction will be made for bottles of 250 capsules.*

This announcement is made in order that Pharmacists may sell all existing stocks prior to 1st January, 1951. Orders executed during December 1950 will be invoiced at the reduced price.



**John Wyeth & Brother Limited**  
Clifton House, Euston Road, London, N.W.1

### **Resistance to colds?**

"Yes, this is the time when customers come in for Esobactulin. If we do as well on Esobactulin as we did last year, I shan't complain." The complete course—6 capsules taken over 5 days—is designed to give most people 3 months' immunity from colds.

**Retail price 8/3 inc. P. Tax**

Supplied through your Wholesaler  
**33½% DISCOUNT—Plus bonus of 13 to the dozen**

COUNTER AND WINDOW DISPLAYS NOW  
WILL BRING RESULTS

Literature on request

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UPPER RICHMOND ROAD, LONDON, S.W.



**ESOBACTULIN**  
*protection against colds*



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100 "	12/-	18/-
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 Manufacturers of Fine Chemicals and Pharmaceutical Products.  
 BYRON HOUSE, 7-9, ST. JAMES STREET, LONDON, S.W.1

When the Weather indicates...

# "Goodbye to Summer"

It is time to lay in stocks of remedies for coughs and colds. We have anticipated a wider demand for the original "Gee's Linctus Pastilles" by increasing production but supplies are not unlimited. Early orders will receive speedy attention and with each order for 3 doz. tins 2 new show cards for counter and window display will be sent. Each doz. tins are packed in an attractive display outer.

Price 10/- per doz. plus Purchase Tax.



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# Gee's Linctus PASTILLES

WARRICK BROS., NILE STREET, LONDON, N.1.

JKL

# When it's Sundries Think of "Ritchies"!

*A few samples from our range :*

Arch Supports	Gillettes
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Dressings of all types	Dunlopillo      Cushions
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<i>We stock Addis, Halex and Hygeix Brushes</i>	
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 ORANGEPEEL  
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DRUGS . . . . . GALENICALS . . . . . PENICILLIN . . . . . TABLETS  
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**LIVERPOOL**

*new product information*

## BUFFERED Crystalline Penicillin G, potassium salt, DC(B)L

Crystalline Penicillin G is unstable in solution. The addition of a suitable buffering agent overcomes this disadvantage. Investigation\* has shown that the incorporation of 4.5 per cent. anhydrous sodium citrate permits the preparation of aqueous solutions of crystalline penicillin G which will retain their activity for considerable periods.

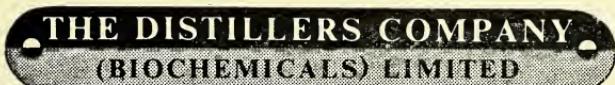
*We have pleasure in announcing the availability, through our usual Distributors, of Buffered Crystalline Penicillin G, potassium salt, DC(B)L in the following packs :*

200,000 i.u., 500,000 i.u., 1,000,000 i.u.,  
in boxes of 5 vials.

5,000,000 i.u., and 10,000,000 i.u.,  
in single containers

*selling at the same price as the unbuffered material.*

\* Clapham, Pharm, J., 1950. 165,126.



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FOR THE RELIEF OF  
HYPERTENSION



Supplied in bottles of 50 and 250 Tablets

**Retail: 6/10 and 30/8**

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Also available in Tax-free Dispensing  
Packs containing 500 tablets at 32/-

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Better

M&W

Value

## LOZENGES OF THE B.P. and B.P.C

- Ammonium Chloride
- Benzocaine Compound
- Bismuth
- Brompton
- Formamint
- Cinchocaine
- Potassium Chlorate
- Sulphur

Quality and reliability is maintained by  
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Supplies available from stock.

Suppliers of a complete range of Pills, Tablets, Capsules, Lozenges and Suppositories.

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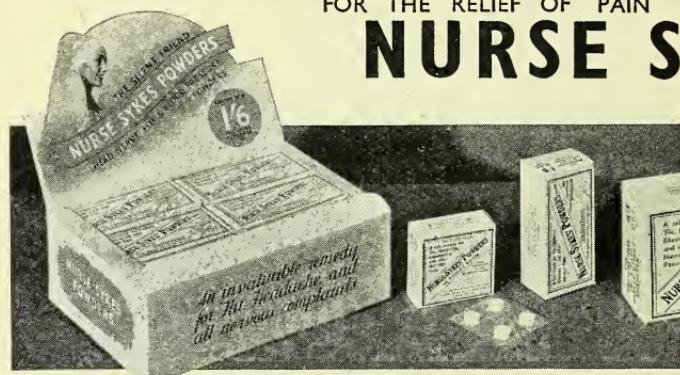


Christmas Greetings from **YARDLEY**

FOR THE RELIEF OF PAIN . . .

# NURSE SYKES'

## POWDER



13 to the do  
for a Cour  
or Windo  
Display  
I dozen  
Carriage pa

**MOST** of your customers suffer from Headache, Neuralgia, Depression, etc. . . . . .

Nurse Sykes' Powders will relieve them and at the same time show you the **MOST** profit.

ETHICAL SHOW MATERIAL AVAILABLE ON REQUEST. SPECIAL TERMS TO CHEMISTS  
SEND YOUR ORDER TO YOUR WHOLESALER OR DIRECT TO:

**NURSE SYKES' COMPANY, ASHTON - UNDER - LYNE, LANC.**

RETAIL PRICE 1/6 per Box of 8 Powders or 16 Tablets 6/3 per Large Box of 36 Powders or 72 Tablets  
WHOLESALE PRICE 1/6 size 10/6 per doz. + Tax 6/3 size 4/3 each + Tax

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Sole Manufacturers: JEFFREYS,  
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FROM OUR OWN GROWERS      Alexandrian & Tinnevelly  
Pods, Leaves, Siftings  
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THE RAPID RAT REMOVER<sup>REC'D.</sup>

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MEDICINAL PLANT EXTRACTS—MALE FERN EXTRACT  
GARLIC OIL, JUNIPER BERRY OIL

*Samples and quotations on request*

The logo for Richard Daniel & Son, featuring the company name in a decorative serif font inside an oval border. A small 'reg' symbol is located at the bottom right of the oval.



**PROPRIETARIES  
SUNDRIES DRUGS  
TABLETS & PILLS**

# FOR CHEMISTS

# *Manufacturing Chemists*

Head Office & Works Mansfield Road Derby Telephone 4266 (4 lines) Branch Warehouse Grosvenor St. Ashton-under-Lyne Telephone 2816 (2 lines)

A collage of various vintage pharmaceutical labels and packaging pieces, including Michie's Pharmacy, R.C. Pharmacy, and F.L. Kelly, M.D., all featuring the word "MAGNESIUM" prominently.

# *Chemists' Labels*

**THOMAS WAIDE & SONS LTD**  
KIRKSTALL HILL LEEDS



*Alocol Cream is supplied in bottles of 9, 40 and 80 fl. oz.*

On the  
P.A.T.A

Retail Prices :

9 oz. - - -	3/9
40 oz. - - -	15/4
80 oz. - - -	27/9

Trade Prices :

9 oz. -	33/9 doz.
40 oz. -	11/6 each
80 oz. -	20/10 each

# An Effective Antacid -

# Alocol Cream

THE recent successful introduction of Alocol Cream products, with Alocol Powder and Alocol Tablets, three convenient ways of administering Colloidal Aluminium Hydroxide to meet every condition and preference.

Alocol Cream does not separate and can thus be used in an eminently clean, hygienic and pleasant manner. It has a delightful peppermint flavour which is acceptable to everyone.

Equally with Alocol Powder and Tablets, Alocol Cream is a most effective antacid for the neutralization of hyperacidity in the treatment of dyspepsia, peptic ulcer and other conditions which irritate the gastric tract.

### **ALOCOL Cream— like Alocol Powder and Tablets— has these advantages :—**

- Owing to its high reactivity it quickly neutralizes excess acidity.
- It has a reserve of neutralizing power and can thus control for a prolonged period the gastric acidity at the level most conducive to healing.
- It does not produce alkalization or a condition of alkaloisis.

# **Two NON-STICKY Bandages**

for the treatment of  
**VARICOSE CONDITIONS**



## **2. THE ELASTIC ONE-WAY STRETCH (O.W.S.) BANDAGE**

This is a flesh coloured bandage which presents an excellent cosmetic effect. It is the ideal bandage for the supportive treatment of all uncomplicated cases of varicose veins.

### **RETAIL PRICES**

Two-Way Stretch (T.W.S.)	
Supportive Bandage; each .....	17/6
One-Way Stretch (O.W.S.)	
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Trade Terms on request

## **JOHN BELL & CROYDEN**

Wigmore Street, London, W.1  
Telephone: WELbeck 5555

Telegrams :  
Instruments, Wesdo, London

Vide "Varicose Veins"  
(R. Rowden-Foote, 1949),  
page 180-181,  
Butterworth & Co., London

## **I. THE ELASTIC TWO-WAY STRETCH (T.W.S.) BANDAGE**

An entirely new bandage which treats the varicose limb by "bandage massage" by virtue of its unique two-way stretch character as the patient walks. The two-way "bandage massage" given to an oedematous limb usually causes the disappearance of this sign. Width of bandage 3½ ins.





## *The Nothing-but-Silcot Customer*

### MEETING THE DEMAND FOR QUALITY

Not every customer lays emphasis on quality. But many do. They must have the best, especially if they can have it at a competitive price.

It is this demand for quality that Silcot is made to meet. Many require a towel which will give them a degree of personal comfort they do not otherwise get.

Silcot is the answer to their needs.

You can understand, therefore, their nothing-but-Silcot attitude. When they get used to Silcot they do not like anything less comfortable or less secure.

All of which goes to show that Silcot is a line well worth selling. Your customers will like Silcot. And you will like Silcot, too.

**SILCOT**  
SANITARY TOWELS

**MACDONALD & SON LTD.**

HOPE MILLS, POLLARD STREET, MANCHESTER, 4

Ardwick 1561-2

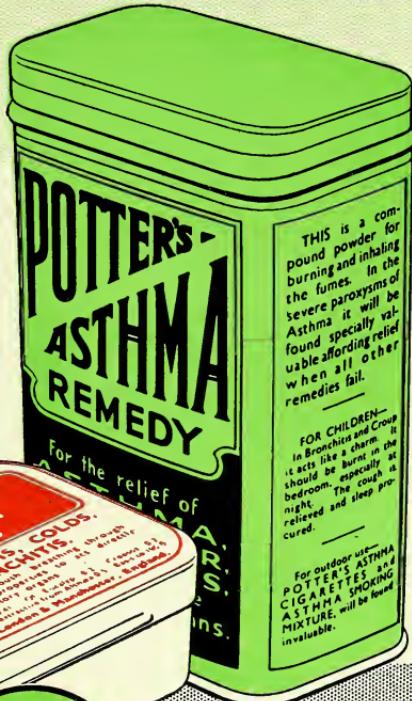
# 2 GOOD 'REPEATERS'

**POTTER'S ASTHMA  
REMEDY**

RETAIL 2/5 TIN

**POTTER'S CATARRH  
PASTILLES**

RETAIL 1/9 TIN



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Grams : Horehound, Motherwell.



# THE PUBLIC WANT ZEMS

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718/24 SEVEN SISTERS ROAD.  
TOTTENHAM, N.15



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**ASPIRIN B.P.**  
**ASPIRGAN**

Crystals and Powder  
A granular form of Aspirin specially evolved for direct tabletting

**PHENACETIN B.P.**

Crystals and Powder

**SALICYLIC ACID B.P.**

White Flakes. White Powder

**SALICYLIC ACID (technical)****SODIUM SALICYLATE B.P.****METHYL SALICYLATE B.P.****BENZOIC ACID B.P.****SODIUM BENZOATE B.P.****PHENOLPHTHALEIN B.P.****VANILLIN****PHENOL B.P.**

Ice Crystals. Detached Crystals  
Liquefactum B.P.

**CRESOL B.P.****CRESANTOL 3 (Benzyl Cresol)****P.C.M.X. (Chloroxylenol B.P.)****CRESANTOL 15**

(Chlorinated Xylenols)

**P.C.M.C. (Chlorocresol B.P.)**

An auxiliary germicide





There are over

350

**M&B**

# **PHARMACEUTICAL CHEMICALS**

# MAY & BAKER LTD

DAGENHAM

Phone 11 Ford 3060 Ext 220



# Kiddies love it! Mothers praise it! . . . and it's a fine selling line!

A sound therapeutic preparation too, which you can confidently recommend for kiddies' coughs and colds, well knowing that it's delicious flavour (FERUTE contains *real* blackcurrant and raspberry juice) will earn you favour with the children and grateful thanks from worried mothers. FERUTE is a real "good-will" builder. Never sticks on the shelves. Repeats and repeats and repeats. Truly a happy "till tinkler"!

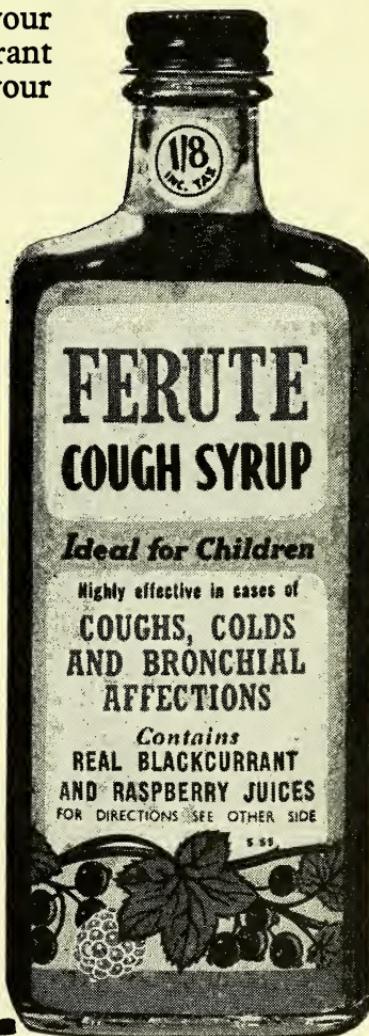
## FERUTE COUGH SYRUP

*Contains real Blackcurrant and Raspberry Juices*

Order a dozen or so today! 2 sizes: retailing at 1/8 inc. tax and 2/11 double quantity. Can be mixed with your order for Zac Baby Products and other "Hough Hoseason" Packed Pharmaceutical Preparations, to qualify for best available quantity terms

*Made by the makers of  
ZAC Baby Products*

HOUGH HOSEASON & CO. LTD.  
Levenshulme, Manchester 19



# Telling millions

*After the party*

The stale odour of tobacco fumes is quickly dispelled by Zoflora—a refreshingly pleasant perfume.

Zoflora contains T.D.T., no perfume curtain and volatile.

**Zoflora**  
Perfumed DISINFECTANT

*Sweeten the air*

A pleasant atmosphere refreshes the mind after the day's work. Sweet fumes in bed.

*Fragrance & Safety in the Sick-room*

Zoflora cleans and sweetens the air and induces peaceful sleep. A boon to patients and nurses alike.

**Zoflora**  
Perfumed DISINFECTANT

*but GERMS never sleep!*

Fragrant mist—sprayed Zoflora destroys air-borne germs in the nursery, induces trouble-free sleep.

**Zoflora**  
Perfumed DISINFECTANT

## about **Zoflora** Perfumed DISINFECTANT

Zoflora, the spray-disinfectant, is now advertised in popular "home" magazines with an estimated readership of 16,300,000. This is making custom for you, because each advertisement directs housewives to their chemist.

May we send you a trial order and show material?

RETAIL: 2/- per bottle. Complete Spraying Outfits, 10/- and 21/-

Usual Trade Discounts

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**THORNTON & ROSS**  
LIMITED  
LINTHWAITE LABORATORIES • HUDDERSFIELD

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## LUNG TONIC & TROCHES

For Coughs, Colds, Chest and Throat Ailments and also for Asthma and Bronchitis.

It is advisable to get stocks in now — ready for the winter demand.

9/- per doz. Retail 1/4½ each.  
3 doz. lots 8/9 per doz.

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AN ALL COTTON WOOL PRODUCT OF REPU-

**ConSolute**  
Patent No. 41070  
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SUPERFINE QUALITY  
ALL WOOL SANITARY TOWEL

LOOPEd ENDS  
NON-ABSORBENT BACK  
**WHOLESALE ONLY**

**ROBERT BAILEY & SON, LTD.**  
SURGICAL DRESSING MANUFACTURERS  
DYSART STREET, GREAT MOOR, STOCKPORT  
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Grams: "UNDISPUTED," STOCKPORT

***For the treatment of hepatic  
and biliary insufficiency . . .***

# F E L A M I N E

- ★ **Cholecystitis**
- ★ **Cholelithiasis**
- ★ **Cholangitis**
- ★ **Post-Operative Treatment**

*Literature and samples sent on request*



# SANDOZ PRODUCTS LIMITED

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They'll  
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winter  
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Order  
NOW

- "EASU" Liniment
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BIRM'HAM

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# KORAY

has countless users. For  
relieving headaches,  
colds and 'flu,  
'nerve' pains, etc.



# KORAY

is advertised in  
national and provincial  
press and backed by  
attractive 'point of sale' mater-

# KORAY

is packed in colourful car-  
tons containing 5, 10,  
28 or 64 tablets. The  
5's cartons are available  
on an attractive  
hanging card.



# KORAY



cartons are packed  
with attention compelling sh-  
oppers which make selling  
easy. Koray has a  
quick turnover and  
shows a good profit.

**ORDER  
STOCKS NOW**

KORAY LIMITED  
Golden Mile Works, Bridgend, Glam.



ROTER

## Roter Gastric Ulcer Tablets

**Reliable and effective for all disorders  
due to hyperacidity.**

*Outstandingly successful for chronic gastric and duodenal ulcers hitherto unresponsive to any other treatment.*

Roter dispenses almost entirely with absenteeism and the need for rest, hospital treatment and operations.

**No Narcotics.      No side effects.**

Retail prices: trial size (40) 7/11d. standard size (120) 22/6d. full treatment size (640)

£5 . 12 . 6.

*Obtainable from the Importers :*

**F.A.I.R. Laboratories Limited**  
**183 Heath Road, Twickenham**

*Manufactured by :*  
**Pharmaceutische Fabriek "Roter"**  
Hilversum, Holland

# sterilised bone calcium phosphate

Technical information, samples and quotations will be sent on request

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Telephone: Temple Bar 3629

The **ARTHOL**

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MANUFACTURING CO., LTD.

**PERFUMES**

CONCENTRATED ESSENCES  
AROMATIC CHEMICALS  
SYNTHETIC ESSENTIAL OILS  
TERPENELESS " " "  
for all purposes

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*Announcing*

# Din-Din

MEATS FOR BABIES  
PURE LIVER PUREE

A SIGNIFICANT ADVANCE IN INFANT NUTRITION



DIN-DIN Liver Puree is made from fresh pig livers and brought down to the smallest particle size for babies' easy digestion. Nothing is removed and nothing added except liver stock and salt for flavouring. DIN-DIN permits the beneficial adoption of a mixed diet for babies at a very early age.

*The Ministry of Food Bulletin on feeding children of 1-5 recommends liver or meat daily in the diet.*

Liver is rich in protein, iron and the B vitamins, etc., and promotes firm muscles, a greater weight gain, and a thriving, strong, healthy baby.

#### INTENSIVE PROPAGANDA

is now being undertaken among Paediatricians, Infant Welfare Clinics, etc., so  
**DIN-DIN SALES ARE ASSURED.**

#### ORDER NOW

Packed in glass jars of 3-ozs net.  
Supplied in wooden outers of 1, 2 & 4 doz.

#### GENEROUS PROFITS

Write for trade terms to the

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**DIN-DIN LTD.**

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Manufactured by:—  
**ANTIGEN LTD., Roscrea, Republic of Ireland.**

# SANATOGEN

*Regd.*

**will build up winter  
resistance . . .**

# T

ELL YOUR CUSTOMERS about 'Sanatogen'. Now that winter is on the way it is time to encourage sales of 'Sanatogen'. Make a counter display; remind those who already know 'Sanatogen' that it builds up resistance against winter ailments; tell those who are not familiar with 'Sanatogen' about its tonic properties, and that it will help to keep them free from winter ills.

Not only will this small effort on your part bring increased sales but also it will ensure steady repeat demand.

*'Sanatogen' available in three sizes :*

	Retail Price (inc. tax)	Trade Price	Subject to 10% display and co-operation dis- count on parcels to the value of £10.
4 oz. . . . .	5/6	40/- doz.	
8 oz. . . . .	10/6	76/3 doz.	
2 lb. . . . .	37/7	22/10 each	

## A GENATOSAN PRODUCT

*distributed by British Chemicals & Biologicals Ltd.*

GENATOSAN DIVISION

Loughborough, Leics. Tel: Loughborough 2292



**D'r Scholl's**—the name that means FOOT COMFORT



## INCREASED PRICES

AS FROM 1st DECEMBER 1950

# **D'r Scholl's**

## FOOT REMEDIES AND APPLIANCES

We regret that it has been necessary to make some increase in the price of a number of our lines. The new prices are effective as from 1st December 1950.

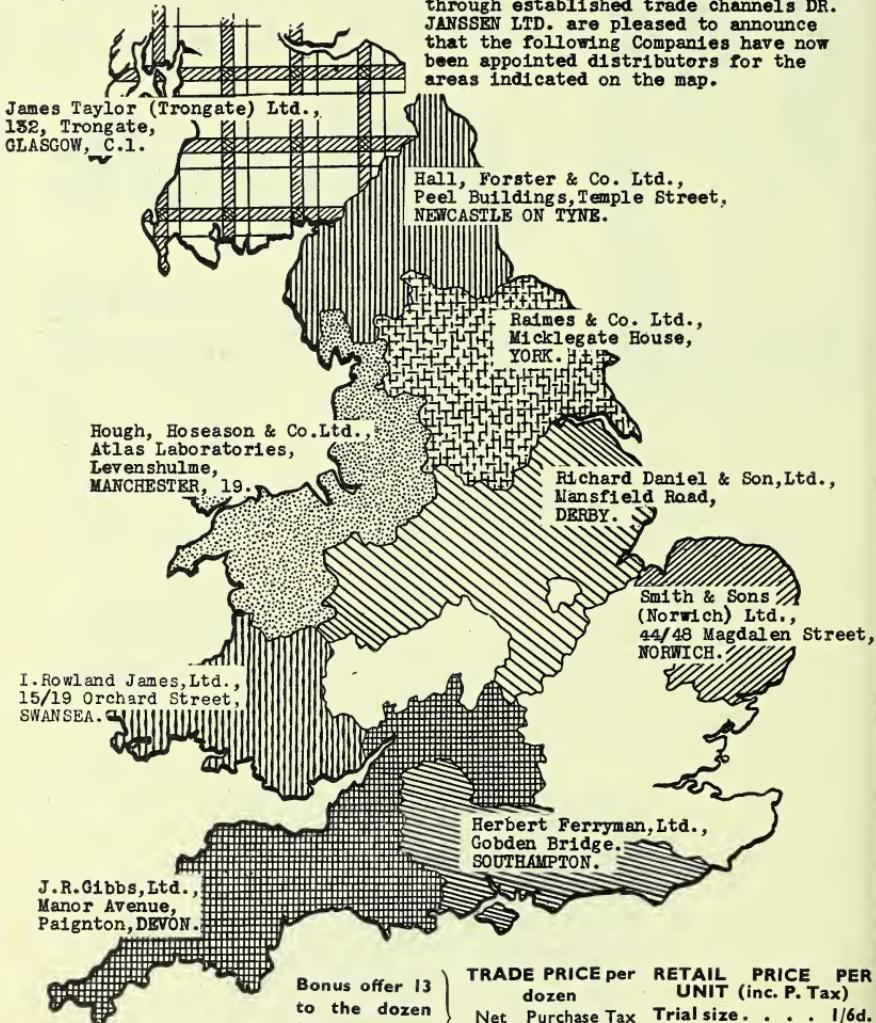
If you have not received our NEW Trade Price List giving full details, we shall be pleased to send copies on request.



**THE SCHOLL MFG., CO., LTD.**  
**182/204 ST. JOHN STREET, LONDON, E.C.I**

AND AT CHICAGO, NEW YORK, PARIS AND BRANCHES THROUGHOUT THE WORLD

# Important Trade Announcement



Bonus offer 13  
to the dozen  
for counterdis-  
play only.

	TRADE PRICE per dozen	RETAIL PRICE PER UNIT (inc. P. Tax)
Net Purchase Tax		Trial size . . . 1/6d.
9/9d.	3/3d.	Standard size . . . 3/11d.
25/8d.	8/7d.	(Month's supply) P.A.T.A.

## DR. JANSEN'S HERBAL TABLETS

DR. JANSEN LTD. 37<sup>th</sup> NEW CAVENDISH STREET • LONDON • W. 1

# SPECIAL ANNOUNCEMENT

*by*

**M. W. HARDY**  
& CO., LTD



. . . . we are now at

**PINNERS HALL**  
**GT. WINCHESTER STREET**  
**LONDON E.C.2**

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*Telegrams* : HARDICHEM LONDON



Behind fast-moving 'ASPRO' sales the stimulus of a continuous advertising campaign through Press, poster and cinema. The public want to know what product is—what it does—and advertising tells them. It is this which makes all the difference between the worthwhile line and the "once-in-a-while" line. It is this which creates an ever-greater public demand for 'ASPRO'. You get the benefit of the demand to the full by continuously displaying 'ASPRO' in window or on counter. It is a fact that

## 'ASPRO' DISPLAYS BRING IN NEW BUSINESS

MORE THAN 1,000 CHEMISTS  
ARE USING THE 'ASPRO'  
ELECTRIC CLOCK



This precision-made Smiths "Sectric" clock (as illustrated, size 13½" x 10") will be gladly supplied to you at cost price (£3) for use in your shop or window. It is a quality job, elegant and modern in appearance and an excellent timekeeper. We have had a host of approving comments from the 1,000 and more chemists who have already installed it.

**NOTE:** These clocks are not suitable for use on D.C. mains, but in such cases we can supply an 8-day Smiths lever-movement clock at £3 15s. Od.



Made by  
P.A.T.A. ASPRO LIMITED, Slough, Bucks

**“Q.A.”**  
BRAND

# Quick Acting Aspirin Tablets



The well-known characteristics of Q.A. Brand Aspirin Tablets are immediate disintegration and consequent quick action, and, to the chemist, the profitable repeat sales which are the rule when Q.A. Aspirin Tablets are consistently offered and shown. The majority of people undoubtedly show a lively sense of discrimination when buying medicinal products and often have no wish simply to buy for instance, the cheapest Aspirin Tablets.

Q.A. Brand Tablets give full satisfaction and increase goodwill. They are easy to sell and very profitable.

Packed in bright, attractive display outers for the counter. Show-cards and window displays are available.

**Retail prices 1/- and 2/6d.**

It is a wise policy to sell a good Aspirin Tablet which brings repeat business time and again.

SOLE MAKERS :—

**THOMPSON & CAPPER WHOLESALE LTD**  
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## *Fine Chemicals*

### BROMIDES

POTASSIUM · SODIUM

AMMONIUM · STRONTIUM

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FINE CHEMICAL DIVISION OF  
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Phone:  
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Telegrams:  
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**Easier** to ask for . . . .

**Easier** to take . . . .

'Tabloid' 'Empirin' Compound with Codeine . . . widely prescribed for relief of pain when narcotics are undesirable . . . will in future be issued under the name 'CODEMPRIN.' Content of the four active ingredients is essentially unchanged, but the products themselves have been reduced in weight from 10·1 grains to 7·6 grains. 'CODEMPRIN' is very attractively packed, with cartons and labels matching those now used for 'Tabloid' Aspirin and 'Tabloid' 'Empirin' Compound. A bonus of 13 to the dozen will be given on orders of 3 dozen or over. List prices remain unaltered: bottle of 25, 2/3 plus 7d. tax; bottle of 100, 7/9 plus 1/11½ tax; dispensing pack of 500, 35/- tax free.

**'CODEMPRIN'** TRADE MARK

Acetylsalicylic Acid . . . gr. 3½ Phenacetin . . . gr. 2½ Caffeine . . . gr. ½ Codeine Phosphate . . . gr. ½

# 'CODEMPRIN'

Formerly supplied as 'TABLOID' 'EMPIRIN' COMPOUND WITH CODEINE



BURROUGHS WELLCOME & CO. (The Wellcome Foundation Ltd.) LONDON

# The new standard in LIVER EXTRACTS

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**PERNAEMON FORTE AND PERNAEOMON CRUDUM NOW  
STANDARDISED ON VITAMIN B<sub>12</sub> CONTENT**

---

PERNAEMON FORTE now contains in each 1 cc. the haemopoietic factors of liver *including* a guaranteed B<sub>12</sub> content of 20 micrograms. It is indicated for true pernicious and most megaloblastic anaemias. In this highly purified liver preparation the B<sub>12</sub> content is standardised by sensitive cross-check methods of assay.

PERNAEMON CRUDUM, for those who prefer a whole liver extract, contains within its Vitamin B complex not less than 3 micrograms of B<sub>12</sub> in each 2 cc.

*Price List on request.*

---

## PERNAEMON

*Forte* : 1 cc. ampoules. Boxes of 3, 6, 12, 50. Also 5 cc. vials.  
*Crudum* : 2 cc. ampoules. Boxes of 3, 6, 12, 50. Also 10 cc. vials.

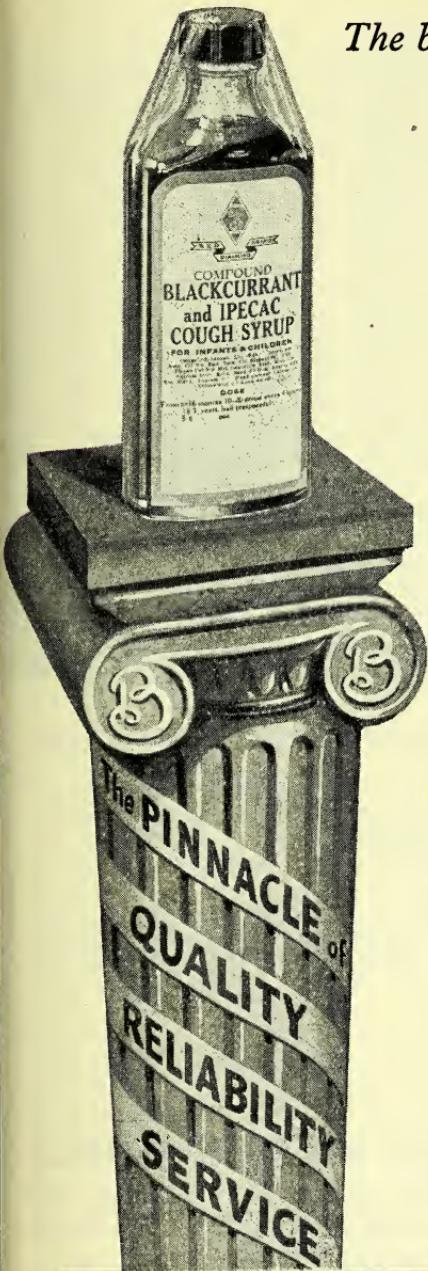
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# ORGANON

ORGANON LABORATORIES LTD., BRETTENHAM HOUSE, LONDON, W.C.2

*The best of their kind,  
always 'above' the average*



The 'Red Diamond' series  
of PASTILLES including  
**ANTISEPTIC THROAT  
CATARRH  
GLYCERINE of  
THYMOL**

10/- a doz. plus tax 33½d

**Compound  
BLACKCURRANT and  
IPECAC COUGH SYRUP**

A delicious, delectable  
and efficacious  
preparation for ALL  
children and their  
parents

4 oz. size 8/9 a doz.  
8 oz. size 11/6 , ,  
plus tax 33½d.

A "RED DIAMOND" PRODUCT

**BURGOYNE BURBIDGES**

Established 1741. & COMPANY LIMITED, LONDON. E.6

# 'Seventy One' Bath Cubes

SIX DIFFERENT PERFUMES IN ONE PACKET

*Lavender Gardenia Lilac Eau-de-Cologne Jasmine Essence of Flowers*

'Seventy One' Bath Cubes are firmly moulded to resist ordinary handling.

They crumble easily and dissolve speedily in use. The perfumes are unusually good and each cube in a packet of six is differently scented.

The pack is designed to display attractively as well as to protect perfectly.

Your customers will appreciate their fine quality and economic price.

**RETAIL PRICE**  
Packet of six cubes  
1/9 inc. P.T.  
Single cubes 3½d. each  
inc. P.T.

**TRADE TERMS**  
17/6 per gross cubes  
PLUS PURCHASE TAX  
Quantity Discounts for—  
5 gross cubes 2½%  
12 gross cubes 5%  
MINIMUM CARRIAGE PAID  
QUANTITY  
4 dozen packets of 6

*Sole Agents London and Home Counties :—*

**THE ALLIED DRUG & CHEMICAL CO.**  
ROBERT STREET, LONDON, N.W.1.      Phone : EUSton 2524 (12 lines)

Throughout the British Isles Dentists are using and recommending

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Economical  
No Soaking  
Cleans Instantly  
Liquid Cleanser  
Efficient  
No Waiting

FOR  
CLEANING  
PLASTIC  
DENTURES

3/- per bottle inc. tax. 33½ discount. Showcards supplied  
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5 Lines

A.REVAI & CO. LTD

7-8 IDOL LANE  
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80/85% B.P.  
Oil Euc. Dives 40/45%  
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70/75% B.P.  
Piperitone 90/95%  
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UNIFORMITY OF QUALITY      CONSISTENCY OF ODOUR

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**GALENICALS TABLETS  
CAPSULES INJECTIONS  
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**DUNCAN, FLOCKHART & CO., LTD.**  
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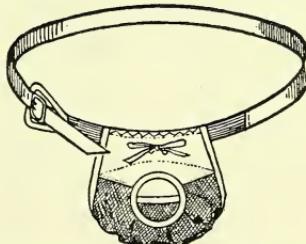
**Agar Agar • Aniseed Oil  
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SURGICAL APPLIANCES and SUNDRIES  
ABDOMINAL BELTS and CORSETS  
SUSPENSORY BANDAGES  
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TRUSSES CHEMISTS SUNDRIES



Appliances N.H.S. All types  
Special terms to wholesaler

*Write for price list*

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(Propr.: A. G. Price)

STONEY STREET • BEESTON NOTTS

# Attractive BONUS OFFER



until  
**DEC 31st**

On all orders of six 4-lb. tins of Simpkins  
Medicated Pastilles

## WE OFFER A FREE BONUS

of ONE 2-lb. jar of Medicated Pastilles  
(Retail value 18/8d.)

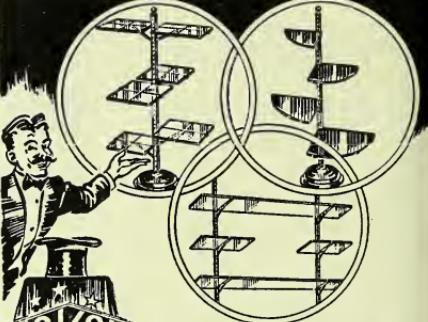
We pay Purchase Tax on the Bonus

You may order the six 4-lb. tins in any variety from Blackcurrant, "Dilly Duckling," Antiseptic Fruit, Bronchial or T.C.L., and your free jar may be any of these, as you wish. The decorated tins are free and are non-returnable. The bonus jar is charged, but returnable for credit.

Send in your orders today and reap the full benefit during the winter months.

**Simpkins** of Sheffield

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Frequent change in your window display is the best way to attract the customers' eye. With Hokon Display equipment you can "ring the changes" often as you like with the minimum effort and the maximum effect.

You can change the height, layout and the look of your display in a matter of minute and your goods are displayed to the best possible advantage.

**CHURCH & CO (Fittings) LTD**

16 THE ORACLE, MINSTER STREET, READING

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*Lastonet*  
SURGICAL STOCKING

with NYLON  
Mixture Foot

Lastonet, the renowned made-to-measure Surgical Stocking is now available with a Nylon Mixture Foot, giving greatly increased wear.

Measurement forms and full details from the makers:-

**LASTONET PRODUCTS LTD.**  
Carn Brea, Redruth  
Cornwall

No increase  
in price

Now supplied with Nylon Mixture Foot

Lastonet for inconspicuous support

*It's Featherweight*

More Mothers choose

# Griptight

FEEDTEATS  
than any other

Awarded the  
**DIPLOMA**  
of the  
ROYAL INSTITUTE  
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You can recommend the GRIP-TIGHT Feedteat with every confidence. More Mothers choose this brand because it gives entire satisfaction and is recommended by many leading Hospitals, Clinics and Welfare Departments. They are extra carefully pierced and are available in fifteen

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**Stops Scurf**

**Page-Barker's**

Scurf & Dandruff Lotion

Trade 20/- doz.

Money Back

Plus Tax  $\frac{1}{2}$  Retail 3/4

Guarantee  
on every bottle!

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**A Nationally approved selling line returns**

*Ingram's*

**AGRIPPA  
SPIRAL GREEN BAND  
TEATS & VALVES**

PAT N° 498456



Ingram's, famous for over a hundred years for their Surgical Rubber Manufactures, take pleasure in announcing the return of one of their Agrippa Teat series, the Spiral Green Band Teats and Valve

Nationally approved by nursing and clinical authorities and a best seller before the war, they are meticulous made from pure transparent rubber in four shapes, all of which are designed to ensure an even, natural flow. They will not accidentally pull off. Each teat packed separately in a carton. Now being supported by press advertising which will be increasingly developed.

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GUARANTEES THE QUALITY

*Ingram's*  
LONDON

J. G. INGRAM & SON LTD., LONDON, E.

*Take it from me  
these products  
PULL THEIR WEIGHT*

### Satino

#### TOILET TISSUE

Satino Toilet Paper in rolls and Inter-leaved Super soft in boxes — Backed by Nation wide publicity.



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#### HOUSEHOLD TOWELS

A Boon to every house-wife. Supplied (Perforated) in rolls. Further details from address below.



Details and Samples  
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FREEDER BROTHERS PAPER MILLS  
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Also Bakelite and Metal Screw Caps  
SUBSTANTIALLY REDUCED PRICES

Large stocks of various kinds available for immediate delivery. Just send us details of your requirements stating quantities you want of each item and we will gladly quote by return.

## COMBS for SALE

Dressing Combs 7 $\frac{1}{8}$ " price 16/6 per gross  
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Subject to 33 $\frac{1}{3}\%$  Purchase Tax

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13 NEW COLLEGE PARADE,  
FINCHLEY ROAD, LONDON, N.W.3

Telephone: PRImrose, 5611 and 3167  
Telegrams: 'GORDON' PRIMROSE 5611

*When the prescription calls for*  
**ELASTIC ADHESIVE BANDAGE**  
**DISPENSE**



Its resilience and retraction provide a firm and comfortable support appreciated by the Medical Profession.

NEW TARIFF PRICES

$2\frac{1}{2}'' \times 3$  yds.....41/6 per doz.    $3'' \times 3$  yds.....49/- per doz.

Also made in the following sizes:

1" x 3 yds.      2" x 3 yds.      4" x 3 yds.

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**MONTON • LANCS**

ESTABLISHED OVER 100 YEARS

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Established 1889

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**Reliance**TRADE  
MARKMAKERS OF THE FAMOUS "RELIANCE"  
MOULDED SEAMLESS HOT WATER BOTTLES.  
USED THE WORLD OVER.THE  
"FEMININE"  
SYRINGE  
(BRIGHT COLOURS)**"EASYCLEAN"  
SEAMLESS-MOULDED  
SYRINGES**These Syringes  
are entirely seamless  
moulded with new model  
Flexible Vaginal Pipe.The "Feminine" Syringe is  
made in attractive colours. Its  
special feature is that it is so easily  
cleaned internally and externally by en-  
closing the Vaginal Pipe and pumping soapy  
water.Every part of the "Easyclean" Spray opens to  
inspection. No inaccessible harbours for dirt.

Each packed in separate box.

THE  
"EASYCLEAN"  
(PATENT)  
WHIRLING  
SPRAY  
(RED)

Phone or write for prices

RELIANCE RUBBER COMPANY LTD.,  
CREMORNE WORKS, 88 LOTS ROAD, CHELSEA, LONDON, S.W.10  
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Telegrams: "Doorstop," Fulroad London

**TOOGOOD'S  
PINE NEEDLE  
EXTRACT**A delightful and  
Refreshing  
Medicated Pine  
Preparation★ ★ ★ ★ ★  
★ No. 8878 in attractive  
Pyramid Shape Bottle  
19 6/ doz. Plus 33½ P.T.**OUTSTANDING BONUS OFFER**

- ★ With every order for 3 doz. bottles we will supply 6 bottles FREE or
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★ ★ ★ ORDER NOW! ★ ★ ★

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**NORTHERN  
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Read in the homes of the people  
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## Dandruff Remover Shampoo

NOT "just another liquid soapless shampoo"  
but a shampoo based on **PURE SOAP** specially  
and scientifically blended to combat  
dandruff and safeguard the scalp from  
curl and other disorders.

Retail : £1/3 per bot. (incl. Pur. Tax)

Wholesale : 8/6 doz. (plus  $\frac{1}{2}$  P.T.)

or **MEN, WOMEN and CHILDREN**

possesses definite tonic properties for the  
removal of dandruff, scurf and scalp irritation.

Gentle in action; no drastic "degreasening" pro-  
cesses to harm the hair and render it brittle or  
arsh to the touch.

This refreshing perfume appeals to both sexes.  
Extremely economical in use, a 1/3 bottle is  
sufficient for at least two good shampoos.

Write for particulars of our best terms

VAN WILLIAMS CO. LTD., Aintree Rd., Perivale, Mddx.

Illustration shows attractive point-of-sale  
counter display supplied with all orders.



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## AND DERIVATIVES

(Bulk  
Supplies  
Only)

THE BRITISH DYEWOOD COMPANY LIMITED  
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# GALENICALS, TABLETS, PACKED GOODS

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*Our own vans cover the Midlands*

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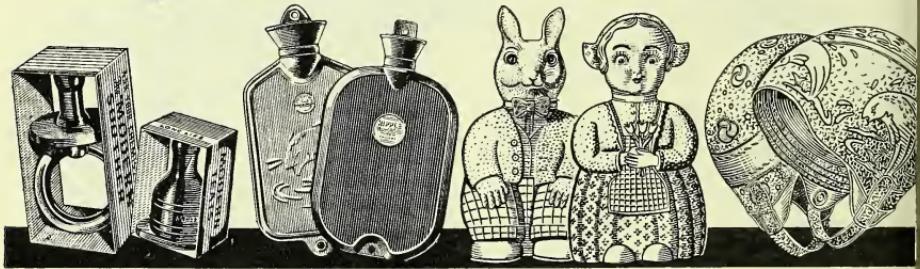


# CANNON RUBBER

## DESIGN SETS THE PACE IN HOT WATER BOTTLE

First, the 'Ripple' and 'Dolphin' which established CANNON reputation for quality and sound design, then 'Noah's Ark' series of novelty bottles that proved popular, that demand nearly exceeded supply. Then 'Cottage' series of gay little figures that is beating records. And have you seen the 'CANNON' self-seal hot water bottle in its showcard pack that sells on sight?

*All from your usual wholesalers*



### STOCK THIS RAPID SELLER



An efficient instrument for dealing safely and swiftly with corns, callouses, hard skin etc. Foot conscious customers will clamour for this. Trimacorn keeps feet fit and the sales moving. Retail at 2/- (inc. P.T.)



Full details from:  
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### Creme Simon

Creme Simon have reluctantly to announce that as from December 1st, 1950, there will be a slight increase in the prices of their products. This has been forced on them by the large and frequent increases in the costs of raw material and containers.

However, "Quantity Discounts" to retailers which were in force until Quota Restrictions made them impossible are to be reinstated, effective December 1st, 1950.

*Revised price lists are being distributed.*

#### CREME SIMON

(Distributors) Ltd.

31a/32a Bedford Street,  
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# Lip-Cote has come to stay!

Extensive National Advertising in the magazines that women buy and read is building a firm demand for LIP-COTE—the only clear coating that really *seals* the lipstick for hours on end.

Women are finding that LIP-COTE definitely prevents lipstick smears—and you can find new sales and bigger profits.

*n ideal Christmas line    Retail Price 6/6 (P.T. 2/7 incl.)*



# Lip-Cote

*SEALS the lipstick*

S.P. (COSMETICS) LTD., 37, Chesham Place, London, S.W.1.

Telephone : SL0ane 4107

# Dearborn

*(S.P.S.LTD.)*

## MERCOLIZED WAX

· · · · · *for nightly skin care*

## PILENTA SOAP

· · · · · *for the complexion*

## SIPOLITE

· · · · · *a powder depilatory*

## CLYNOL BERRIES

· · · · · *a slimming preparation*

*Supplies obtainable from our Distributors*

## POTTER & MOORE LIMITED

LAVENDER HOUSE, SEYMOUR ROAD, LEYTON, E.10

## Pharmaceutical Emulsions and Emulsifiers

by L. M. Spalton, B.Pharm., M.P.S.

Today, the pharmacist is faced with an almost bewildering assortment of emulsifying agents, all having varying properties and requiring different methods of treatment.

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The practical uses of emulsifiers is dealt with at considerable length, together with methods of handling each type of emulsifying agent and full notes of incompatibilities and other matters.

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Useful and up-to-date—this book provides essential information in concise form.

★ Every pharmacist should possess a copy

**5/6**  
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### TABLETS

The best method of prescribing the valuable synergistic A.P.C. combination.

Dispensing pack 100 for 3/- Tax Free Retail Counter Packs 10½d. 1/9 and 3/3

- Will not constipate
- Well tolerated by patients liable to gastric upset.
- Rapid and prolonged antipyretic and analgesic action.

#### FORMULA

Acid Acetysal	- 2½ gr.	Calc. Phos.	- 2½ gr.
Phenacetin	- 2½ gr.	Phenolphthalein	1/2th gr.
Caffeine	- 1 gr.	Amylum	- 1 gr.

**ABBOTTS DRUGGISTS LTD.**  
338 Kilburn High Rd., & Iverson Rd., London, N.W.6

Velocity de DIXOR

Shades: IVORY, NATURAL, PEACH, SUNGOLD, OCHRE

The ORIGINAL combined POWDER CREAM

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# BUSH

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*Pharmaceutical  
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**ASPIRIN B.P.**

"Fre-Flo" Crystals and Powder

**ACETANILIDE B.P.C.**

Crystals and Powder

**SALICYLIC ETHYL CARBONATE**

**CALCIUM SUCCINATE**

*Keep them skipping fit Mother!*

with EDME  
**'Autumn Sun'**  
EXTRACT OF MALT  
WITH COD LIVER OIL  
*The finest protection for chills and ills*

# Have you seen



new beautifully designed  
showcard size 23" x 17½"  
full colours?

With the two side panels 17" x each also supplied, the whole makes an attractive window display which compels attention, and creates sales.

THE COMPLETE SET IS FREE. See your representative, or write to us for your FREE set.

EDME "AUTUMN SUN" is Malt and Oil with the "tangy" flavour."

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BRAND

*For the relief of*  
**COLDS and CATARRH**

The catarrh season will soon be with us again, when you can recommend Ephedrol with confidence in the quick relief it will give to your customers. Its patent nasal application bottle is infinitely better, safer and easier to use than spray or dropper, and can be carried in handbag or pocket without fear of leakage.

*Now packed in Cartons and Display Outer.*

**CLAY & ABRAHAM LTD.**  
Manufacturing Chemists - LIVERPOOL, 1

**RETAIL PRICES**  
1/10 and 3/8  
*Including Purchase Tax*

**TRADE PRICES**  
*Excluding Purchase Tax*

**Small size:**  
1 doz. 12/- per doz.  
3 doz. 11/- per doz.

**Large size:**  
1 doz. 23/- per doz.  
3 doz. 22/- per doz.  
3 doz. lots carriage paid.



REGD. TRADE MARK

# Enka

TOILET  
**SPONGE**

Made of high-grade cellulose

by a special process

**CONTAINS NO RUBBER**



Velvet-soft when moist

Three delightful pastel shades  
—pink, blue and green

Individually packed in transparent wrappers

Attractive display boxes of 12  
—(assorted colours)

**DOES EVERYTHING  
A SPONGE DOES  
BETTER**

★ Send your enquiries and orders to your usual wholesaler.

Wholesalers are invited to ask our representative to call with samples and details of our sales terms.

Distributors to the Chemists' Trade

**FASSETT & JOHNSON LTD.**

86 CLERKENWELL ROAD, LONDON, E.C.I. also at 139 BATH STREET, GLASGOW, C.2.

**MACWILL & COMPANY LTD., 7 WEST ROAD, KINGSTON-ON-THAMES**



**2/9**

INCLUDING  
TAX

# WATCH 'PINEATE' STOCKS FOR WINTER COUGHS



Display the lines that sell — the lines that are Nationally Advertised. Your customers are seeing the new 'Pineate' campaign so be sure you get your share of this business by displaying 'Pineate' on your counter.

*Selling Price (inc. P.T.) 1/1d. per bottle. Trade price (excl. P.T.) 13/9d per doz. Purchase Tax 4/7 per doz.*

**YOU GET AN EXTRA 12½%**  
**on an I.C.C £10 parcel**  
**selected from any of these lines**

'PINEATE' Honey Cough-Syrup. 'ALKIA' Saltrates. 'ANNE FRENCH' Cleansing Milk. 'ANADIN.' 'BiSoDol.' 'BISURATED' Magnesia. 'FREEZONE' Corn Remover. 'KOLYNOS' Products. 'LYSTONE' Salts. 'REUDEL' Bath Salts.

★ YOUR SELLING PRICE . . . . .	£13 6s. 8d.
YOUR OUTLAY (£10 less 12½%) . . .	£8 15s. 0d.
YOUR PROFIT . . . . .	£4 11s. 8d.

# Pineate Honey Cough-Syrup

TRADE MARK

International Chemical Co. Ltd., Chenies Street, London, W.C.



Distinctive Pack.

Delicious Butterscotch Flavour

'TARTAN' BRAND MALT EXTRACT with COD LIVER OIL B.P.



and 2 lb. Sizes  
Now Available  
for Immediate  
Delivery.

Particulars and  
Prices of this and  
other packs on  
application.

An "ALCONA" PRODUCT distributed by

**'THE ALLIED DRUG & CHEMICAL CO.'**

ROBERT ST., HAMPSTEAD RD., LONDON, N.W.1 Phone : EUSton 2524

**IN MATTERS CONCERNING FEMININE HYGIENE..**

**SHE LOOKS TO  
*you* FOR  
PROFESSIONAL ADVICE**



The responsibility to give professional advice when called upon has placed pharmacy in a position of high esteem, and it is a service especially valued by women. When it is a question of family limitation it is always wise to suggest a Rendells Product. As pioneers of the chemical contraceptive we can now offer a range of preparations to suit every individual requirement.

**RENDELLS PESSARI**  
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PRODUCTS FOR FEMININE HYGIENE

W. J. RENDELL LTD. HARDWICK HOUSE - 161-5 ROSEBERRY AVENUE LONDON E.C.1

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Successful cultivation of medicinal plants is an art that results only from long experience.

For over 100 years William Ransom & Son Ltd. have specialised in drug growing and the wealth of their knowledge is reflected in the outstanding quality of their products.



*A field of young henbane, Ransom's Farm, Hitchin*

#### ACTUAL GROWERS OF

BELLADONNA	·	HENBANE
PEPPERMINT		
FOXGLOVE	·	CHAMOMILE
LAVENDER		

#### EXTRACTS

(Solid and Liquid)

TINCTURES	·	RESINS
OLEO-RESINS	·	RESINOIDS
ESSENTIAL OILS	·	CHLOROPHYLL



*MANUFACTURING CHEMISTS AND GROWERS OF  
MEDICINAL PLANTS FOR OVER A CENTURY*

**WILLIAM RANSOM & SON LTD.**  
*Hitchin Hertfordshire England*

# Firm Favourites!

*with every member of the family . . .*

## CUTICURA PREPARATIONS

(MEDICINAL AND TOILET)

**SOAP . OINTMENT**

**TALCUM POWDER . SHAVING STICK**

These grand aids for skin-care have been giving confidence and satisfaction for over 65 years.

Profits are good—Advertising consistent and widespread. Sales-promoting window displays always at your service.

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*The following attractive products, each with a universal appeal, will shortly be added to the popular Cuticura Range:*

**HAND CREAM . BABY OIL**

**SHAVING CREAM . LIQUID ANTISEPTIC**

**AFTER-SHAVE LOTION**

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*British Distributors:* **NEWBERRY & PHILLIPS LTD.**

203, Victoria House, Southampton Row, London, W.C.1

TELEPHONE: HOLBORN 1564

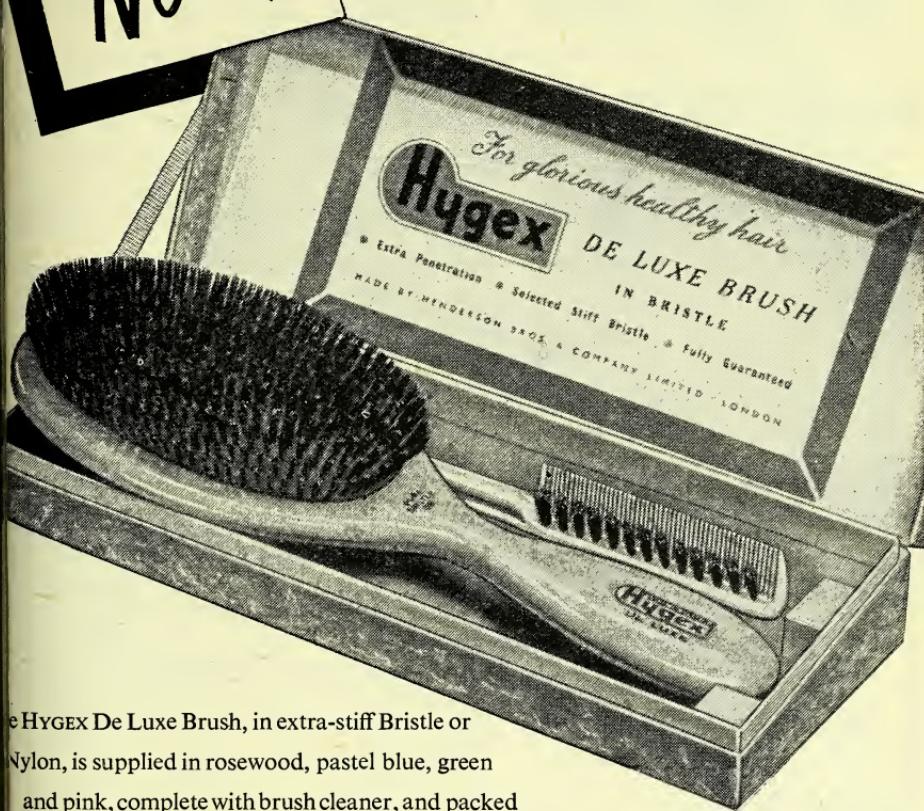
*for*

**THE POTTER DRUG & CHEMICAL CORPORATION**

205-207, Victoria House, London, W.C.1

# THE HYGEX DE LUXE BRUSH

New!



The HYGEX De Luxe Brush, in extra-stiff Bristle or Nylon, is supplied in rosewood, pastel blue, green and pink, complete with brush cleaner, and packed in attractive individual boxes. It is going to be another Hygex 'best-seller' with a good profit margin. Order through your usual wholesaler

#### RETAIL PRICES

No. 35 BRISTLE ..	35/-
No. 45 NYLON ..	25/-

## THE BRUSHES PEOPLE CAN WELL AFFORD



Manufacturers

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Burwell Road, Leyton, London, E.10  
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# National Advertising of RADIAN

—the aspirin spirit liniment—has promoted a steady demand. CHEMISTS are asked to foster this goodwill by maintaining adequate stocks

*Manufactured by*



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Telegams : Radiotonal, Van. London.

Professional samples and literature on request

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J. R. GIBBS Ltd., Manor A

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Different liquids present different problems and when it comes to mixing an efficient solution lies in the use of a Mitchell mixing unit. From a wide range we can supply models that will agitate anything from  $\frac{1}{2}$  gallon to 50,000 gallons. Increase output and lower operating costs by installing a Mitchell mixer.

**MITCHELL**  
RAPID MIXING &  
STIRRING UNITS

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PRINTED OR PLAIN  
OF EVERY KIND, FOR EVERY PURPOSE  
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BRINKSWAY, STOCKPORT  
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105 of the world's best photographs for 8/6 in *The Year Book of Photography*. Cash orders (133½%) for immediate despatch accepted by The Royal Photographic Society (G), 16 Princes Gate, S.W.7. Ask for Society brochure.

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A FEW STOCK SIZES. ALL PER 1,000					
1 $\frac{1}{2}$ x 2 $\frac{1}{2}$	.. 14/-	3 $\frac{1}{2}$ x 6 $\frac{1}{2}$	.. 33/-	5 x 5	..
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Large stocks of WINDOW DRESSING PAPERS  
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**CLOSE SHAVES  
WITH FAR-REACHING RESULTS**

# RADIO TIMES

*The Nation's Shop Window*

**80,000  
HAPPY  
SHAVERS  
can't be wrong!**

80,000 men shave  
every day in New Africa are  
first with a new product  
that reaches every man's reach

Here's today's  
**Top Value**  
in precision-  
built Shavers

In all Arvin shavers both cutting heads are built to one precision instrument and the two fine blades to trimate or nick the skin. The fine ground sheets of metal at very high speeds to produce a close and clean shave possible.

Obtainable from all high  
grade Stores, Chemists,  
Drapers, Chemists and  
Housewives.

**ARVIN** TWINHEAD  
**ELECTRIC DRY SHAVERS**

Write for illustrated leaflets to:  
ARVIN ELECTRIC LIMITED,  
Embrook Avenue, Southend-on-Sea, Essex.

**59/-**  
NET

NEW features include:

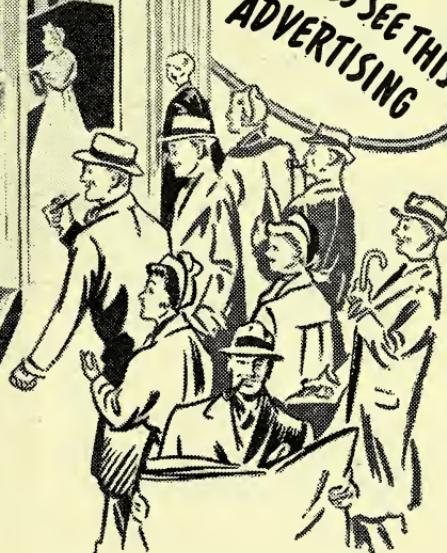
Two heads "Twinhead"

Detachable hair-trimmer

Rubber-coated handles

No radio interference

**8,000,000  
FAMILIES SEE THIS  
ADVERTISING**



Here's an advertisement that directly affects your business. It's appearing in the Nation's Shop Window — the RADIO TIMES which is seen every week by over 8,000,000 families. It stays in the house all week . . . each day of the week it's read by all the household. And as they study the programmes they read the Arvin message.

There's a terrific power in this advertising medium. Not only because it reaches millions, but because these millions have confidence in the goods advertised in the RADIO TIMES. You can't over-estimate the demand this creates. Build up your stocks, NOW!

*Stock and Display the goods advertised in the*

# RADIO TIMES

*Member of the Audit Bureau of Circulations.*

Advertisement Department, B.B.C. Publications,  
Broadcasting House,  
Portland Place, London, W.I.

**FERBERS LTD****FERBERS LTD****VETERINARY MEDICINES**

Be prepared for the extra veterinary business that will result from the wet summer.

**CARBON TETRACHLORIDE CAPSULES**

The officially recognised remedy for Liver Fluke Disease (Liver Rot) in Sheep and Cattle. Capsules of 1 c.c., 2 and 4 c.c. Packed in 12s., 25s., 50s., 100s. and bulk.

**OIL OF CHENOPODIUM CAPSULES**

Indicated in the expulsion of Roundworms, Dwarf Tapeworms and Hookworms. Anthelmintic. Capsules of 5 min. Packed in 24s., 36s., 50s., 100s. and bulk.

Prices and full details gladly send on request.

***Ferbers Ltd***

CARLTON WORKS . ASYLUM ROAD . LONDON . S.E. 10

New Cross 0231/2

Established 1860

**Askit**

THE POWDER WITH A REPUTATION

For over 30 years  
Scotland's leading  
Proprietary Medicinefor the speedy relief of  
Headaches, Neuralgia, Neuritis  
and all Nerve PainsManufactured by  
ASKIT LTD MANUFACTURING CHEMISTS  
GLASGOW Nand stocked by  
ALL LEADING WHOLESALE HOUSESIt's EASIER THAN EVER  
sell **YESTAMIN**

The public is increasingly conscious. The need of yeast supplement to our restricted diet, and as a preventive of many ailments, is widely known. YESTAMIN'S national advertising is a constant reminder. Give arresting point-of-sale emphasis to the advertisement; there are the compact, colourful YESTAMIN packages to show them and be sure to give your share in YESTAMIN increasing sales.

100 TABLETS	RETAIL 1/6	TRADE 12/3 PER
300 TABLETS	RETAIL 4/-	TRADE 33/- PER

Less 5% cash in 14 days

# **YESTAMIN**

## DAILY YEAST

THE ENGLISH GRAINS CO., LTD., BURTON-ON-TRENT

# 'ROCHE' NEWS IN BRIEF

## **Roche Price List, New Edition**

A copy of the new edition of the Roche Price List has already been sent to all chemists on the Register. Attention is directed to some of the new preparations which have been added to the list. These include 'Santrisin,' the 'Roche' sulphonamide, which offers certain advantages over other substances in this class. The five-vitamin preparation, 'Betasym,' already available in the form of tablets and twin-ampoules is now issued as Syrup.

## **Kina-'Redoxon' Tablets**

After two mild winters it is reasonable to expect severe weather at this time of the year, and chemists are reminded that they should look to their stocks. Those desirous of information should write for literature, and samples, if required.

## **Menopausal Symptoms**

'Ephynal' was given to a series of 11 women suffering from various symptoms attributable to the menopause and the results confirmed that Vitamin E provided a safe and effective alternative to the oestrogens. Various levels of dosage from 10 mg. to 200 mg. daily were tried and experience suggested that 100 mg. daily was the most suitable dose with which to begin treatment. 'Ephynal' was most effective in relieving vasomotor symptoms and muscle pains; in cases of dizziness, palpitation and dyspnoea these symptoms were strikingly relieved. No toxic effects were reported. (Ann. West. Med. g., 1950, 4, 29). 'Ephynal' Vitamin E Tablets of 10 mg. to 50 mg.

## **Vitamin C in Rheumatic Fever**

This preliminary report describing the successful use of ascorbic acid in the treatment of seven cases of rheumatic fever presents observations suggesting that the vitamin possesses antirheumatic activity when administered in large doses. The dose of ascorbic acid used was one gramme given four times a day for periods ranging from eight to twenty-six days. The cases are described in detail, six of the patients being between eleven and eighteen years of age, the seventh being a child of five years old. All patients showed remarkable improvement. The mechanism by which ascorbic acid may influence the rheumatic process is not known, but the large doses required suggest that it is not a simple matter of replacement therapy. (New Engl. J. Med., 1950, 242, 614).

'Redoxon' Vitamin C in Tablets and Ampoules of three strengths each—see Price List.



'Persedon' tablets are issued in packings of 10, 100 and 500.

Neither a barbiturate nor a ureide; mild and rapid in action.

# Still the most reliable remedy for Rheumatism

For nearly 40 years Curicones has been kept abreast of medical research. With its present formula, it is certainly the most reliable general remedy you can recommend to Rheumatic sufferers.

And its advertising is never allowed to get in a rut. Now that it is being stepped up in volume, watch Curicones sales begin to grow. Never let yourself run out of stock of either the 5/6 or 26/5 size.

We still have small supplies left of our novel "weather indicator" showcard. It is most effective and surprisingly accurate. Send us your name and address for one and see the interest it attracts.

## CURICONES



AND P.A.T.A.

STEPHEN MATTHEWS & CO., LTD.,  
19/21 Farringdon Street, London, E.C.4

A GRAND  
COUNTER ATTRACTION  
- and **FREE!**



This attractive Display Outer comes free with every dozen lot of Besorbon medicinal snuff. Give your usual wholesaler a trial order for this all-year-round preventive remedy for Hay Fever, Colds and Catarrh—backed by national advertising. Besorbon sells on sight! Put it on your counter.

**BESORBON**  
Kemsales Ltd., 20 Eastcheap, London, E.C.

Recommend to  
your customers

**Ralgex**  
BRAND  
ANALGESIC — RESOLVENT  
COUNTER-IRRITANT  
**SOLID**  
**EMBROCATION**

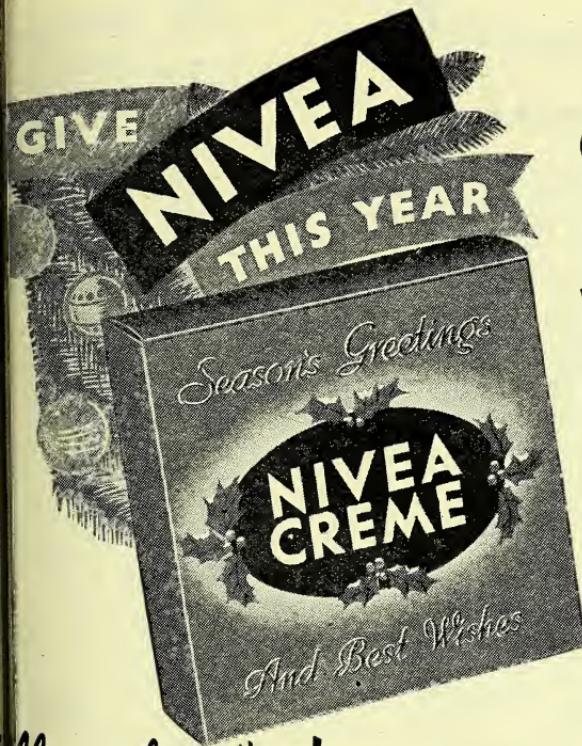
for  
RHEUMATIC and MUSCULAR PAIN  
NEURALGIA and HEADACHES  
BRONCHITIS, CATARRH and LARYNGITIS  
Handy, clean, practical and efficacious. Prescribed by doctors and regularly advertised in medical and nursing journals.

*Write for trade terms, samples & literature.*

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*The Organ Works, Old Hill, Chislehurst, Kent*

MAKE THIS A PROSPEROUS CHRISTMAS



Counters  
go gay  
with the Nivea  
display

Every day counts. Give all the prominence you can to your gay little Nivea 'crowners'. So easy to slip them into the silver sleeve wrappers—and they are sending up the sales!

ll scale attack  
th the new Beauty Pack

at an opportunity!—a gift on launching of Nivea's light-and-lovely unbreakable theme pack. Are you showing everywhere—in every conceivable place? Don't waste a minute don't spare a space. Trade 40s. per dozen, plus tax. Mail 8s. 4d., 4 oz. container.



WILL SAY NIVEA... THIS YEAR

*"One moment  
please . . ."*

"Busy? So am I. We poor G.P.s are driven off our feet nowadays. But there—it's all in a doctor's day. That brings me to the point. Vitamins Limited are making use of *Radio Times* for some special *Bemax* advertising. It started September 22nd and right through to March next your family and eight million others will be seeing me there regularly in an important series, 'All in a doctor's day.'

"If people take the points I shall make about nutrition, I won't be half so busy, but my good friends the Chemists will."



*a new BEMAX series in the Radio Times*

## ... ALL IN A DOCTOR'S DAY

# ASTHMA

PATA

# and RIDDOBRON

Inhalation Therapy have become one associated idea whenever the most efficient treatment is required



★ NOW SUPPLIED IN THREE SIZES—12·5 gm. ; 25 gm. ; 100 gm.



### • RIDDELL INHALERS •

The success of the treatment depends upon the employment Standardised Inhalers, and our PNEUMOSTAT, SUPER PAC DRITAX, (illustrated), RIDDOPAG, and ASTHMATIC Inhalers guarantee the finest possible atomisation. These atomisers are also excellent for Penicillin solutions, with or without glycerine base.

Note 40% DISCOUNT ALLOWED ON MOST INHALERS.

**RIDDELL PRODUCTS LIMITED**  
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Telephone : GERrard 3754

**'DIAKON' FOR Sparkle**



Hairbrush made by  
Hughes Brushes, Ltd.  
Slough.

The brilliance and clarity of 'Diakon' acrylic moulding, combined with the lustre and durability of I.C.I. nylon, gives the perfect brush. This attractive hairbrush is an example of the excellence of modern brushmaking.

*'Diakon' is the registered trade mark  
of the acrylic moulding powder manu-  
factured by I.C.I.*

EMPERIAL CHEMICAL INDUSTRIES LTD.,  
LONDON, S.W.1.



# Liquid Paraffin White Oils and Petroleum Jellies

Further information, samples and quotations on request to

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Telephone: TRAFFORD PARK 2651  
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M·O·R GROUP OF COMPANIES  
BRITISH REFINED OILS

## NORVEX TOWELS

*We have pleasure in  
announcing our latest  
production:—*

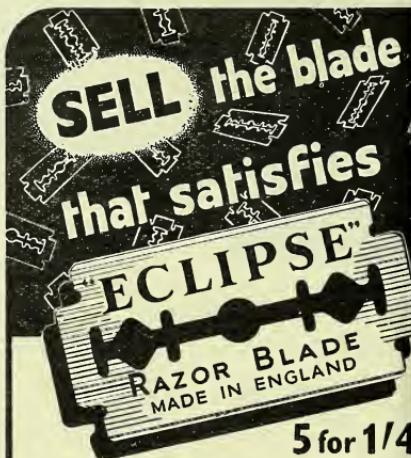
### “NORVEX POPULAR”

An extremely absorbent All Wool Towel retailing at the following prices:—

- No. 0 2/-
- No. 1 2/4
- No. 2 2/9
- No. 3 3/6

*Silky Soft Knitted Covers with  
Stitched Loops*

SEND YOUR ORDERS NOW TO.—  
**CROSSKILL'S OF NORWICH**



5 for 1/4  
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The blade of quality which  
ensures “come again” sales.  
That is what ‘Eclipse’ satis-  
faction means to you.

ECLIPSE RAZOR BLADES LTD., SHEFFIELD



**JOHN & E. STURGE LIMITED**

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*Manufacturers of fine Chemicals since 1823*

## STORAGE MADE SIMPLE

**"SECO"**STEEL STORAGE  
EQUIPMENT

## FOR FACTORIES AND STORES

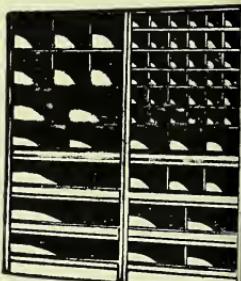
SECO Steel Equipment is suitable for all storage requirements, giving maximum storage capacity in the minimum floor space. A SECO Standard Unit is available to suit your every storage need. All units can be easily assembled with a screwdriver and spanner by unskilled labour on site. We also undertake the production and installation of storage equipment to customers' own specifications. The illustrations show a few standard units from the SECO Range. Send for List C.D.

## The STEEL EQUIPMENT CO., LTD

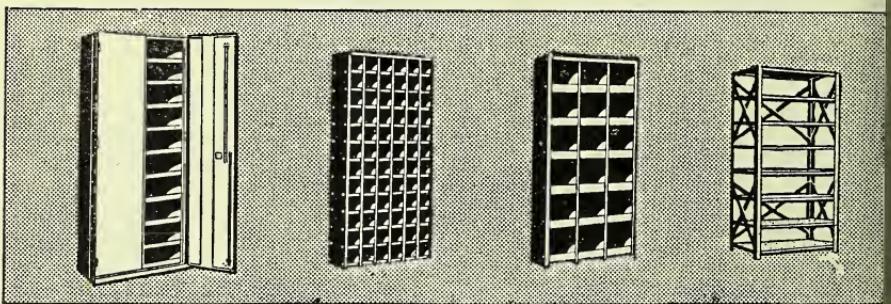
Greets Green, West Bromwich, Staffs.

Phone: TIPTON 1137-8-9

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UNIT No. 950/1



4 L.C.

THE **FLUID**AGITATOR - EMULSIFIER  
LABORATORY MODEL SL-A

All Stainless Steel

Contact with Fluid

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Built-in Control gives speed variation between 20 and 2000 r.p.m.

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Also larger models. SL-I for vessels up to 5 gallons. and S.C. for vessels up to 500 gallons.

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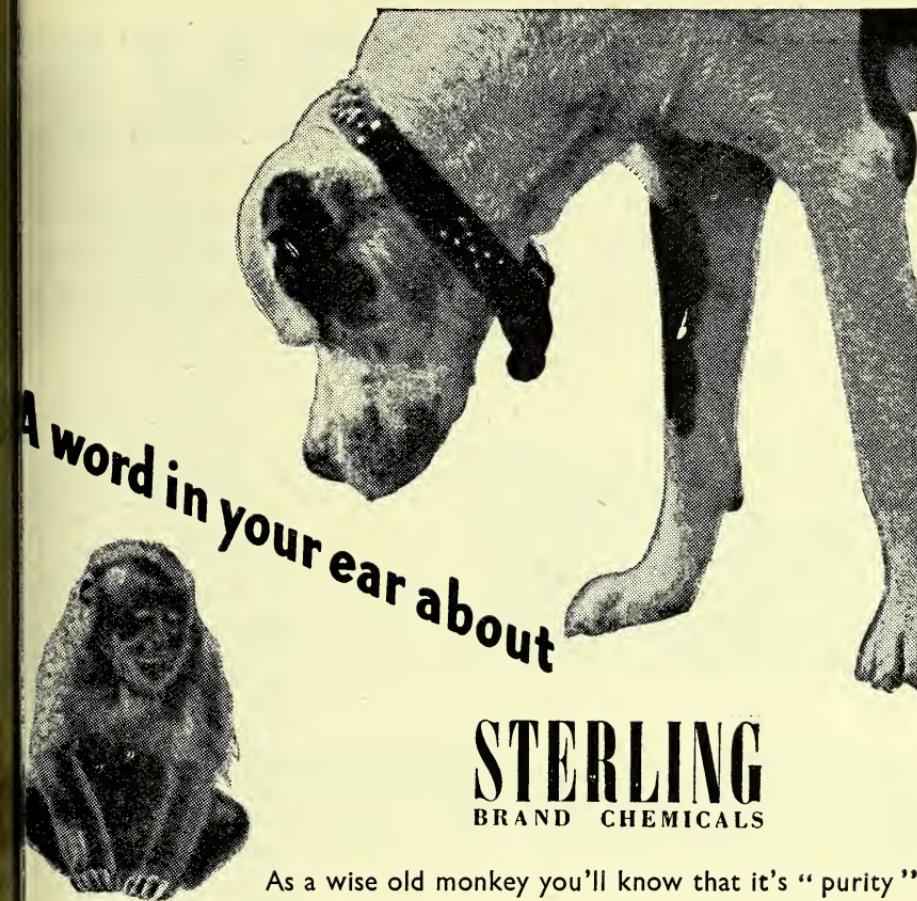
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GARDINER'S  
FOR  
COATSMEN'S WHITE DRIL  
LONG COATSStrongly made. Shrunk.  
36" to 44" Chest.

35/6 each

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OVERALLSStrongly made. Shrunk. Wrap  
over style.SW. W. & WX. O.S. XOS.  
26/11 28/6 30/-WOMEN'S WHITE DRIL  
OVERALLSStrongly made. Shrunk. Coat  
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29/9 30/3 31/1Postage and Packing 1/- extra. Hours  
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**Gardiner & CO. LTD.** (The Scotc  
I, 3 and 5 COMMERCIAL ROAD, LONDON, E.  
Opposite Aldgate East Station. Phone: BIS 6751 (3 line  
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CARR'S VITAMIN E  
PREPARED WHEAT EMBRYO

A RICH NATURAL SOURCE  
**VITAMINS B and E**

TWO SIZES  
**1/9 or 3/-**

Trade 16/- doz. or 27/- doz.  
FREE NON-RETURNABLE CARTON

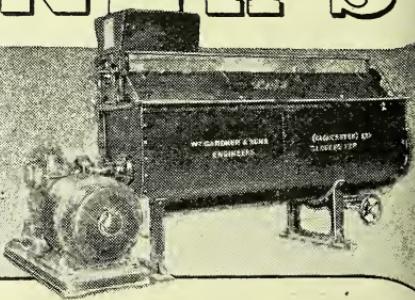
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**CARR'S CEREAL PRODUCTS LTD**  
CARLISLE

## Combined Processing of Powders

# GARDNER'S

Patent 'Rapid'  
**SIFTER-MIXER**  
Combines both operations with speed and efficiency



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Powders are sieved, lumps reduced by revolving brushes, and foreign matter rejected. Then, passing to the mixing chamber any number of ingredients are intimately mixed. Processed in remarkably short time. These machines will continue this performance for a long trouble-free lifetime. Many other machines available for the Chemical Industry.  
Please write for catalogue.

*Glucose in its  
most acceptable  
form!*



With an improvement in the supply of glucose, we are now able to increase deliveries of Glucosol, although not yet to pre-war quantities.

Our thanks are extended to our customers for their forbearance during the past few years, when we have been unable to meet anything approaching their demand for this popular nutrient.

# Glucosol

ENERGISING · PALATABLE  
SUSTAINING

P.A.T.A.



P.A.T.A.

WG101

**JAMES WOOLLEY SONS & CO LTD.**  
VICTORIA BRIDGE, MANCHESTER 3.

# Four ways to sell every man what he wants— shaving comfort



Williams Shaving Stick is the great stand-by of all shavers. It keeps fresh in the smart plastic case, with the ingenious Holder-Top that makes handling easy and cuts wastage. Reload, to repeat Steadily.

Men who have no time to lose are steady customers for Williams Esquire. This brushless cream is specially formulated to prevent sting and scrape; gives close, cool shaves in half the normal time.



Williams Luxury Shaving Cream is a boon to men with dry, sensitive skins. It contains the amazing Extract of Lanolin—25 times more intensified than soothing Lanolin itself.



Whichever he uses, he'll want to finish the job with the most popular after-shaving lotion in the world.

## J. B. WILLIAMS

*Makers of fine shaving preparations*

*Sole distributors: SCOTT & BOWNE LIMITED, 50 UPPER BROOK ST., LONDON, W.1*



Cussons

# IMPERIAL LEATHER

*The Quality Toilet Soap everyone wants!*

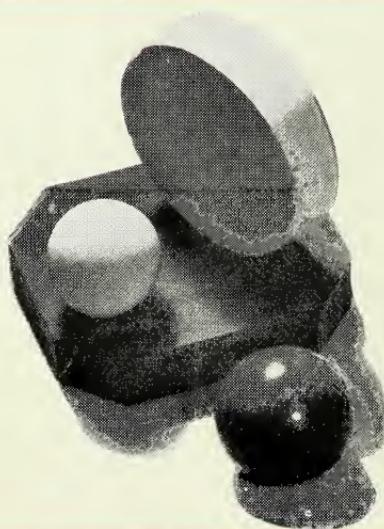
fully supported by colour advertising in national home and class journals  
PRODUCT OF CUSSONS SONS & CO. LTD, 84 BROOK ST, GROSVENOR SQ, LONDON W.1

DECEMBER 2, 1950

A Service backed by 110 years experience

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STANDARD  
AND  
OFFICIAL  
FORMULÆ  
PROMPTLY  
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PRIVATE  
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PACKAGING  
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# TABLETS

ARTHUR H. COX & CO. LTD., BRIGHTON, 7, Sx